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FIGURE 8

GTGTACGAAAGAGAAACCCGGAGGGCGCCGGGACTGGGCCGGGGTCTGCAGGGCTCAGCTGAGCCCATGAGCTC
CCAGAGCTAACCCCTGAACACCCAGGCGGGCAAAGGGCTGATGTCGGTAGTCCCCATCCTGGAGGGGCAGGCTCT
GCGCATCTGCTCCTGGCATGGCGCTGCCGCACCTCGCCCTCCTGGCTGGCCTTCTCGTGGGAGTCGCCAGCAAGT
CCATGGAGAACACGGCCAGCTGCCGAGTGCTGTGTGGATGTGGTGGGCGTCAACGCCAGCTGCCAGGCGCAA
GTCTGTGTGGTCCAGGCTGTTACAGGCGCTGGAACGCGGACGGGAGCGCCAGCTGCGTCCGCTGTGGGAACGGAA
CCCTCCAGCCTACAACGGCTCCGAGTGTAGAAGCTTTGCTGGCCCGGGTGGCCATTCCCCATGAACAGAAGCT
CAGGGACCCCCGGGCGGCCACATCCTGGGGCTCCGCGCTGGCCGCTCCCTCTTCTGGGCACGTTCTTCATTA
GCTCCGGCCTCATCTCTCCGTAGCTGGGTCTTCTACCTCAAGCGCTCCAGTAACTCCCCAGGGCCTGCTACA
GAAGAAACAAAGCTCCGGCCCTGCAGCCTGGCGAAGCCGCTGCAATGATCCCCCGCCACAGTCTCAGTACGGA
AGCCGCGCTACGTAGGCGGGAGCGGCCCTGGACAGGGCCACGGATCCCGCTGCCTTCCCGGGGAGGCCCGTA
TCAGCAATGTCTGACCTGGAGGCCGAGACCACGCCACGCACTTGGCGGCAGGGACCGGAGGCCGACCCCTTGGC
GGGAACCAGCACAAAGTGTTGGCATCGCCCGCGCCCGGACAGTCCCTGGGCACAGCCTCGGCTCTGGGTCCCTC
CGCCTCCAGCGACGGACGCCAAAGGGTCCCGGGCCGCTGAGGCTCTTCCACACAGCCATCTCGTTTATCG
GACCAGGAGCAGGCATCCATGAGACCTCAGAGCTTCAGATCGAGGCTTGGGGGTCCGGGCCCCCAGGAAAC
ACGGTGAGGCCCCAGCGCCTGCAGCCAAAGCTGGCACGATCTATGGGCGAGTGCCGCTCTGCCTAGAAAAGCCA
GGGGCTCTGCTGCCGTGCCCTCCAGAGCCCACAGCGGCAGGACTCCTCCAGCACCACACCCAGTGGCCCGA
GACCCCTCTGAGAACAGTGAGGCTGGTCTCTGTCGGTTCAGCCGCTGCCCGGCCAGTGGGGAGGACACAGCCT
AGGAACCAGCTGCCTGAGACCAGGGTGCCTCTGGGCTGTCTCCCGCTGGCGGAGACCCCAAGCACGCAGCCAC
CCATTTCCGGAGCTGCAGGATAGAGCTTCTCTTGATCTCTGTTTTTAAGCAGAAATTCATTGTGCTGAAAAGTC
CTCCAGAGCTCTGTGGCCCCGCTCGGATCCGCTGGACCCCATGCCTGGCTGATCCCTGCCACGTGGGGCAGGC
CCACATCTAACCCCCACAAGTCACTGCCTCACTGCACCTGCCAAGGCTGCCCTGGCGCTGAGTCTGGGGTCCCT
CCCGGAGTCTCTGGGAGAAAGGCGCCGCTCGTGGCCGCTCCCGCACGCCAGGCCCGGGCTCCACCGTGGGTCTCA
GACGCCCTGCGGCACCGGCACCGTCTGCTTTAGCATGGGACCCCATCTGAGGGGTGGCCTGGCCTTCGGGGTCC
CCACGCTCCTTTGCGAAGTCCACTGTGGGTGCCATCATGGTCTCCGGGACCTGGGCCAGCGGAACGTGGGGGCA
CTGGGTGTGCTGATATAAAGTCGGCATTACTCAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 9

MALRHLALLAGLLVGVASKSMентаQLPECCVDVVGVNASCPGASLCGPGCYRRWNADGSASCVRCGNGTLPAYN
GSECRSFAGPGAPFFPMNRSSGTPGRPHPGAPRVAASFLGTFFISSGLILSVAGFFYLKRSSKLPRACYRRNKAP
ALQPGAAAAMIPPPQSSVRKPRYVRRERPLDRATDPAAFPGEARISNV

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FIGURE 10

AAAAAAAAAAAAAAAAACCGGCTCGCGGCGCGTGGAGGCTGCTCCCAGCCGCGCGAGTCAGACTCGGGTGGGGG
TCCCGCGGGCGGTAGCGGCGGCGGGTGCAGAGCATGTCGTGGCTCTTCGGCATTAAACAAGGGCCCCAAGGGTGA
AGGCGCGGGGCGCGCGCGCCTTTGCCGCGCGCAGCCCCGGGGCCGAGGGCGGGGACCGCGGCTTGGGAGA
CCGGCCGGCGCCCAAGGACAAATGGAGCAACTTCGACCCACCGGCTGGAGCGCGCCGCAAGGCGGCGCGCA
GCTGGAGCACTCGCGTTATGCCAAGGACGCCCTGAATCTGGCACAGATGCAGGAGCAGACGCTGCAGTTGGAGCA
ACAGTCCAAGCTCAAAGAGTATGAGGCGCGCTGGAGCAGCTCAAGAGCGAGCAGATCCGGGCGCAGGCTGAGGA
GAGGAGGAAGACCCTGAGCGAGGAGACCCGGCAGCACCAGGCCAGGGCCAGTATCAAGACAAGCTGGCCCGGCA
GCGCTACGAGGACCAACTGAAGCAGCAGCAACTTCTCAATGAGGAGAATTTACGGAAGCAGGAGGAGTCCGTGCA
GAAGCAGGAAGCCATGCGGCGAGCCACCGTGGAGCGGGAGATGGAGCTGCGGCACAAGAATGAGATGCTGCGAGT
GGAGGCCGAGGCCCGGGCGCGGCCAAGGCCGAGCGGGAGAATGCAGACATCATCCGCGAGCAGATCCGCCTGAA
GGCGGCCGAGCACCGTCAGACCGTCTTGGAGTCCATCAGGACGGCTGGCACCTTGTTTGGGGAAGGATTCCGTGC
CTTTGTGACAGACTGGGACAAAGTGACAGCCACGGTGGCTGGGCTGACGCTGCTGGCTGTTGGGGTCTACTCAGC
CAAGAATGCCACGCTTGTCGCGGCGCGCTTATCGAGGCTCGGCTGGGGAAGCCGTCCCTAGTGAGGGAGACGTC
CCGCATCACGGTGCTTGAGGCGCTGCGGCACCCCATCCAGGTGAGCCGGCGGCTCCTCAGTCGACCCAGGACGC
GCTGGAGGGTGTGTGCTCAGTCCCAGCCTGGAAGCACGGGTGCGCGACATCGCCATAGCAACAAGGAACACCAA
GAAGAACCGCAGCCTGTACAGGAACATCCTGATGTACGGGCCACCAAGGACCGGGAAGACGCTGTTTGCCAAGAA
ACTCGCCCTGCACTCAGGCATGGAATACGCCATCATGACAGGCGGGGACGTGGCCCCCATGGGGCGGGAAGGCGT
GACCGCCATGCACAAGCTCTTTGACTGGGCCAATACCAGCCGGCGCGGCTCCTGCTCTTTGTGGATGAAGCGGA
CGCCTTCTTCGGAAGCGAGCCACCGAGAAGATAAGCGAGGACCTCAGGGCCACACTGAACGCCTTCTGTACCG
CAGGGGCCAGCACAGCAACAAGTTTATGCTGGTCTGGCCAGCAACCAACCAGAGCAGTTCGACTGGGCCATCAA
TGACCGCATCAATGAGATGGTCCACTTCGACCTGCCAGGGCAGGAGGAACGGGAGCGCCTGGTGAGAATGTATTT
TGACAAGTATGTTCTTAAGCCGGCCACAGAAGGAAAGCAGCGCTGAAGCTGGCCCAGTTTACTACGGGAGGAA
GTGCTCGGAGGTGCTCGGCTGACGGAGGGCATGTGCGGCCGGGAGATCGCTCAGCTGGCCGTGTCTGGCAGGC
CACGGCGTATGCCTCCGAGGACGGGGTCTGACCGAGGCCATGATGGACACCCGCGTGCAAGATGCTGTCCAGCA
GCACCAGCAGAAGATGTGCTGGCTGAAGGCGGAAGGGCTGGGCGTGGGGACGAGCCTTCCCCATCTGAGTCCA
CAGGGAGATCCACAGCTCACGGAGCCTGGCCGCGGACCCCTCCACCCCTGCCTTGCCGGCCCCCTGCACATTTAG
GATATGCTCCTGGGTGGGACTGGGCTGTGCCAGGGCTCTGTCCCCAGGATGTCTTGTGGTGCGGGTGGGCC
GTTCTGCCCCCAGGGCACCCCTGTTGTAGGCACTGGCTAGGGAGGGGAGGCCTCCTTCTGCCCCCTCGAGAC
ACTCTTGGGAGATGCATTTTCCGTCTGGCTCAGGGGGAGGGTGAGGCTTTCACCCAGCCCTGCCAGGCC
ACTGTGAGGGTGGGTGCTGGCTGACCCCGGGGCGAGGAGCCAGGAGGTGATGTCTTTGTTCTCGGCTCCC
ACAGCAGAGCCAGGTGAGGGGGCGCTGCCAGGGCCAGACCCAGGTGGGGCAGCCTGAACCCTGCTTCCCCCTGT
GGCCGCGATGCCCCGATCTTTACACACTGGTGACCTGAGAGAGGAGGAGGAGGGAACCTGGCGGGGGTGTCT
GAGGCCGCACTGTGAGCTGGCCGGTCCAAGCCTGTGGCTGGAGCTGGGGTCTGTTTACCTAATAAAGTCCCACAG
GTGCTCATT

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FIGURE 11

MSWLFGINKGPKGEGAGPPPLPPAQPGAEGGGDRGLGDRPAPKDKWSNFDPTGLERAACAARELEHSRYAKDAL
NLAQMQEQTQLQLEQQSKLKEYEAAVEQLKSEQIRAQAEERRKTLSEETROHQARAQYQDKLARQRYEDQLKQQQL
LNEENLRKQEEVQKQEAMRRATVEREMELRHKNEMLRVEAEARARAKAERENADIIREQIRLKAAEHRQTVLES
IRTAGTLFGEGFRAFVTDWDKVTATVAGLTLLAVGVYSAKNATLVAGRFIEARLGKPSLVRETSRITVLEALRHP
IQVSRRLLSRPQDALEGVVLSPSLEARVRDIAIATRNTKKNRSLYRNILMYGPPGTGKTLFAKKLALHSGMDYAI
MTGGDVAPMGREGVTAMHKLFDWANTSRRGLLLFVDEADAFLRKRATEKISEDLRATLNAFLYRTGQHSNKFMLV
LASNQPEQFDWAINDRINEMVHFDLPGQEERERLVRMYFDKYVLKPATEGKQRLKLAQFDYGRKCSEVARLTEGM
SGREIAQLAVSWQATAYASEDGVLTEAMMDTRVQDAVQQHQKMCWLKAEGPGRGDEPSPS

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FIGURE 12

ATCAGTTCTCGCCCGTCTGGGCGTGGGCGTGGCCGGCGTGGCTGCTCGGGACCACCCGAACCCGCGGCCATGGCC
CCGGCCGCGCCAGCCCCCGGAGGTGATCCGCGCGGCGCAGAAGGACGAGTACTACCGCGTGGGCTGCGGAGC
GCGGCGGGCGGCGCCCTGCACAGCCTGGCGGGTGCGAGGAAGTGGCTGGAGTGGAGGAAGGAGGTTGAGCTGCTC
TCAGATGTGGCCTACTTTGGCCTCACCACACTTGCAGGCTACCAGACCCTGGGGGAGGAGTACGTCAGCATCATC
CAGGTGGACCCATCGCGGATACATGTGCCCTCCTCGCTGCGCCGTGGCGTGGCTGGTGACGCTGCATGCCGTCCCTG
CCCTACCTGCTGGACAAGGCCCTGCTCCCCCTGGAGCAGGAGCTGCAGGCTGACCCCGACAGTGGGCGACCCCTG
CAGGGGAGCCTGGGGCCAGGTGGGCGTGGCTGCTCAGGGGCGCGGCGTGGATGCGTCACCACACGGCCACCCTG
ACTGAGCAGCAGAGGAGGGCGCTGCTGCGGGCGGTCTTCGTCTCAGACAGGGCCTCGCCTGCCCTCCAGCGGCTA
CATGTTGCCTGGTTTTACATCCACGGTGTCTTCTACCACCTGGCCAAGAGGCTCACGGGGATCACGTACCTCCGT
GTCCGAGCCTGCCCGGAGAGGACCTGAGGGCCCGTGTAGCTACAGGCTGCTGGGGGTCACTCTCACTGCTGCAC
CTGGTGTGTCCATGGGGCTGCAGCTGTACGGTTTCAGGCAGCGGCAGCGAGCCAGGAAGGAGTGGAGGCTGCAC
CGGGCCTGTCTACCGCAGGGCCTCCTTGGAGGAGAGAGCCGTTTCCAGAAACCCCTGTGCACCCTGTGCCCTG
GAGGAGCGCAGGCACCCAACAGCCACGCCCTGCGGCCACCTGTTCTGCTGGGAGTGCATCACC CGTGGTGCAGC
AGCAAGGCGGAGTGTCCCCTCTGCCGGGAGAAGTTCCTCCCCAGAAGCTCATCTACCTTCGGCACTACCGCTGA

GCCGGCGCCCGGTGGGCCTGGACACAGATGACCTCTACGGGAGTCTGAACGCCAAGATTTAGTCTCAGGATTAA
CCTTGCTTGACAGAAGTTAGAACACTCTCAGTTTTTGTGTCATGTAAGATACTAACCTAGCCACCCTGGGAGAGA
ACAGAAAGCTGTCCCTGGCTGCGCTTCTCAGCCCTGGGAGGGGCGCCTGAACCCAGAACATTTCCCTAACCCCA
ACCTGGTAGGACTCAGCCACTTCTTCAGGAATTTCACTTATTTGGACGGGATTTTAGGTTTCCCTCCCTTCCCCA
AACCATACAGTTGAGAAGTAATTCAGAAGTAGGCCAGAAGACACTTTATTCGTTTATATTGTGAGAAAACAGCCC
CATCAGGCTTGTGTTAAGGCAATGGACTGAATGAGTGCCTGCTGGGTGGGGTGGGGCACGGAGGCTGGCGGGTTG
CTTCAGCCAGTGCAGTGAGAACAGCAGCCCCACGGCCCCATGGGAGGCGGCGCTGCTCTCCCCGAGGGCGGCTGG
GCAGAGCACATCCCCCAGGACTTGATGACCACACGGGGCAGAGAGAAACCAACCAAGGCCAGCACCTCCGTCGGA
AGCATTGTGGCACACACACCTTCAATACACGTCAAGGTGCTTCCAGTTT TAGAAAACAGAAATCTGCATCTCAGC
CTGAGACGCACAGAGAGGTCTCTTCCTGACCAGACGCACTCACGAGCCAGGTCCTGGGGGTATGGGGGCTGCCA
GGGGCGCCCGAGCCCTCTCTGGGGGGCCTGCTGGGCAGGCGACCTGCTGACCCACGGTCACTGCTGTGTTTCAGC
CCCTCAGCTCGGCCCGAGCCTATTTCCCGCCTCCATTTGATGTTTCCAGGTTTTCAAACTGCATTTAACCTGCG
CCAGAGAGTTCACCGTAGGCATCTTTAATAAACTAACTCCAGCAAAAAAAAAAAAAAAAAA

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FIGURE 13

MAPAAASPPEVIRAAQKDEYYRGGLRSAAGGALHSLAGARKWLEWRKEVELLSDVAYFGLTTLAGYQTLGEEYVS
IIQVDPSRIHVPSSLRRGVLVTLHAVLPYLLDKALLPLEQELQADPD SGRPLQGS LGPGGRGCSGARRWMRHHTA
TLTEQQRRALLRAVFVLRQGLACLQRLHVAWFYIHGVFYHLAKRLTGITYLRVRS L PGEDLRARVSYRLLGVISL
LHLVLSMGLQLYGFRQQRARKEWRLHRGLSHRRASLEERAVSRNPLCTLCLEERRHPTATPCGHLFCWECITAW
CSSKAECPLCREKFPPQKLIYLRHYR

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FIGURE 14

GGGCGGCGAGTGGGGAGCGGGGCGGGAGTGGAGCAGCCGCCGCGGGGACTGGACCGAGCCTCGCCGGCGCGC
ACCTGCCCCGACGCCCCGCGGAGCGCGCAGCGCGGCCGAGCGCGACGACCTGCCGAGCGGGCGGCGAGGCGGCG
GTGTGGGCGCGTCAGGCCGCGACGAGGGCGCTGAGACAAATTTACATGTATTGGAGACCAGACCAGAAGCCCTTC
TGAATTAAGATCTCACATTCTTGAAGGTGGCATTGAAGAGCACTAAGATCGGAAGATGAGTGAGCTTGACCAGTT
ACGGCAGGAGGCCGAGCAACTTAAGAACCAGATTGAGACGCCAGGAAAGCATGTGCAGATGCAACTCTCTCTCA
GATCACAACAACATCGACCCAGTGGGAAGAATCCAAATGCGCACGAGGAGGACACTGCGGGGGCACCTGGCCAA
GATCTACGCCATGCACTGGGGCACAGACTCCAGGCTTCTCGTCAGTGCCCTCGCAGGATGGTAAACTTATCATCTG
GGACAGCTACACCACCAACAAGGTCCAGCCATCCCTCTGCGCTCCTCTGGGTTCATGACCTGTGCATATGCCCC
TTCTGGGAACTATGTGGCCTGCGGTGGCCTGGATAACATTTGCTCCATTACAACTCTGAAAACCTCGTGAGGGGAA
CGTGCGCGTGAGTCGTGAGCTGGCAGGACACACAGTTACCTGTCTGTGCGGATTTCCTGGATGACAATCAGAT
CGTCACCAGCTCTGGAGACACCAGTGTGCCCCGTGGGACATCGAGACCGGCCAGCAGACGACCAGCTTTACCGG
ACACACTGGAGATGTATGAGCCTTTCTCTTGTCTCTGACACCAGACTGTTCTGTCTCTGGTGCTTGTGATGCTTC
AGCCAAACTCTGGGATGTGCGAGAAGGCATGTGCCGGCAGACCTTCACTGGCCACGAGTCTGACATCAATGCCAT
TTGCTTCTTTCCAAATGGCAATGCATTTGCCACTGGCTCAGACGACGCCACCTGCAGGCTGTTTGACCTTCGTGC
TGACCAGGAGCTCATGACTTACTCCCATGACAACATCATCTGCGGGATCACCTCTGTCTCTTCTCCAAGAGCGG
GCGCTCCTCCTTGCTGGGTACGACGACTTCAACTGCAACGTCTGGGATGCACTCAAAGCCGACCGGGCAGGTGT
CTTGCTGGGATGACAACCGCGTCAGCTGCGCTGGGCGTGAATGACGATGGCATGGCTGTGGCGACAGGGTCTG
GGATAGCTTCTCTCAAGATCTGGAACCTAACGCCAGTAGCATGTGGATGCCATGGAGACTGGAAGACCATTCCAAC
TGGACGCGTTACCATGAGAGCATATCCTATCCAACCGTACTAACGTGGACACCCTACACCTCCCCCTCAGAACTTC
AAAAGGGCAAGATCTTTTCTCTTCACTTATTGCTGAAACCAAGAGCACAATTTCCATTGAGAGAAAGATCTCTG
TGCTGTAACCTAAACAAATTTGTGATTCTTCCGGGGCCATCGTCTTTGTTTTCTTTTTTGTCTTGAATGAATT
TTAAAAGGAAATATATAATAAAATGTTAACCAGAAGGTAAACTTGAGTGAATTGTGACACAGACACACTTTTC
CACCAGTGATTTTGAATTTTAGACCAGTGACCTGTTTTGTGGCATTTCATGCAAAACATGCTGAGGGCTTTGTTC
ATCTGGTCATCGTGTCCAAATTTTCACTCATGTTTGTAGCAAGATTTTGGAAAGCATTTCATTTTCTTTTTAAAT
GTATTCTTTTGTGTTCAACAGTTAATCAAAACCAGAGAGTCTAGGGCAGCCTCTCTGATGTTGTCAATGATGTAA
ATTCACTCCCTGGTTTTTAATTTTCTGTCTGATGTCACAGATCATTGTTGCACACAAACGTGGCATAGAAAAGAA
CATGTTTCAGAAGCCATGGGGCCAAGCACATGCGGGGACGGTCTCAAATGCGTGATCAGAGAATCCTTCACCTTG
CTGAAAAGTGAGCTCAGATCCAGCACCATGTTCTCTGACCCATCCTGTCTATCTTCTCAGTTGAGTTTTTAAT
CTCACTTTGGGTTTTCTTGTGAAGTTGGAGGGAAGTTTATAATAGCCTAACACTACCCACCCCCCACTAGGAGG
AACCTCTGTTTTTCAAGAGAGATGCCTGTCTGTGCTGGATAGTCAGTCAATTATTTGTGTATGAAACAATGTAC
AAATCAATGTTTTGAAAATAATGATCTCAGACTTTCTAAGTTAAATTTTAAAAATTTTGATTGTTTGCCATATTG
GGTGGGTTTACTCTTAGAATCGCATGCTGTAGAAATGCTCAAAAGTGATATGGGACTCAGTCTTAGGTGTTCT
TTTTCTTTTAAAGAAATAACCTCTTACAGTTGTAACCATTGCGGCTCTGTCCACTTCTCGTTGCTGCTCTGTGGCA
CATATCGGAAGCAGTACAGCGCGCGGCTCTACACGCTTGGGTAGCGGGATAAGTCACTGTTTTCTTTATTTCTTT
AAAAAAAAAAAAAGTTCTGTTGCAAACGACTGCTGTTGGATTCTGAGGGTGGGGAGGGAGAGAGGGAGGGAGAG
GGAGTGAAGAGCCTGCCCTCCTATATGGATTCTTCAGGGCCCTCCACATCTGAGGTGGCTCATTCCCATCACACA
CAGATTGTCCTGGTGTTCATTTCAAGGCCAGTGTTCAGCAGCAGCGTTTGGAAAGCAGGTTCTGTGGGACCCCCC
GCCCCGCCCCCGCACTCCTTCATAGCAGCAGTAGTGGCTTCTCCATCCTGTTTTCTGCAACATTCTATACAAAA
CTGTGCTGTGACCTTGCGGTAGGCTGGATCTGGCAAAGAGAATACAAATGAAACCCCTTCTTTCTTTCCGTC
CAACAACCTCTGTAGAGCTCTCTGCACCTTACCCCTTTCCACCTTTTGATTTAATTTTAAAGTCAGTGTACTGC
AAGGAAGCTGGATGCAAGATAGATACTATATAAAGTGTACTGTTATTTAAGATGTAATAAAGCAGTTTGACATG

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FIGURE 15

ATCAAACCACCCAGCAAATGTCTCGGAAAGAAAAAGTTCATCACAGAAAAGATGAAAAGAGAAAAGAAAAATGT
AGGCATCATAGCCATTCAGCAGAAGGGGGGAAGCATGCTAGAGTGAAAGAAAGAGAGCACGAACGTCGGAAACGA
CATCGAGAAGAACAGGATAAAGCTCGCCGGGAATGGGAAAGACAGAAGAGAAGGGAAATGGCAAGGGAGCATTCC
AGGAGAGAAAGGGACCGCTTGGAGCAGTTAGAAAGGAAGCGGGAGCGGGAGCGCAAGATGCGGGAGCAGCAGAAG
GAGCAGCAGTCAAGAAGATGACCTTCAGCGAGCACCCCTACAACAACCTCCGCAAGCGCTTCGGGGCTCTGCTCT
CAGACCAGGGCTTCGACCTCATGAACAAGTTCCTGACCTACTTCCCCGGGAGGAGGATCAGCGCTGAGGACGGCC
TCAAGCATGAGTATTTCCGCGAGACCCCCCTCCCCATCGACCCCTCCATGTTCCCCACGTGGCCCGCCAAGAGCG
AGCAGCAGCGTGTGAAGCGGGGCACCGCCGAGGCCCCCTGAGGGAGGCCTGGGCTACAGCCAGCTGGGTGACG
ACGACCTGAAGGAGACGGGCTTCCACCTTACCACCACGAACCAGGGGGCCTCTGCCGCGGGCCCCGCTTCAGCC
TCAAGTTCTGAAGGTTCAGAGTGGACCCCGTCATGGGG

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FIGURE 16

MGKTEEKGNKGAFQERKGPLGAVRKEAGAGAQDAGAAEGAAVKKMTFSEHPYNNLRKRFGALLSDQGFDLMNKF
LTYFPGRRISAEDGLKHEYFREITPLPIDPSMFPTWPAKSEQQRVKRGTSPRPPEGGLGYSQLGDDDLKETGFHLT
TTNQGASAAGPGFSLKF

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FIGURE 17

TCGCGCGGAAGCCGCGGTAGGGTGGGAACCCAAGCGGGAGAGCCGCGGGATTGCGGCCGCCGCCATGCCGTCGT
CCCCGCTGCGGGTGGCGGTGGTGTGCTCGAGCAACCAGAACCGGAGCATGGAGGCGCACAAATCCTCAGCAAAC
GGGGATTTCAGCGTCCGATCCTTTGGAACAGGGACTCACGTGAAGCTTCCAGGACCAGCTCCCGACAAGCCCAATG
TTTATGATTTCAAAACCACATATGACCAGATGTACAATGATCTTCTTAGGAAAGACAAAGAAGCTCTATACACAGA
ATGGGATTTTACATATGCTGGACAGAAATAAGAGAATCAAGCCCCGGCCAGAAAGATTCCAGAAGCTGCAAAGACC
TGTTTGATCTGATCCTCACTTGCGAAGAGAGAGTGTATGACCAGGTGGTGGAAGATCTGAATTCCAGAGAACAGG
AGACCTGCCAGCCCGTGCACGTGGTCAATGTGGACATCCAGGACAACCACGAGGAGGCCACCCTGGGGGCGTTTC
TCATCTGTGAGCTCTGCCAGTGTATCCAGCACACGGAAGACATGGAGAACGAGATCGACGAGCTGCTGCAGGAGT
TCGAGGAGAAGAGTGGCCGCACCTTTCTGCACACCGTCTGCTTCTACTGAGCCCAGCGCCCGCATGGAGCCGCCT
CTGGAGCTTCCTGTTGTTTCACTTTTTCTTCCTGACATTTGTTTTTACTTACAGGTGTTCTGCTGGTGACGGT
AGCATTACCCAAATAAACTGTGCATATGAAATGGGAGAGGAGATGCCAAAACGCCAGATGAAAGCAATCAAGTTT
CTTCTTTTCCACTTTTACTTATGAGCGGGATATTGATTACAAAGTTTTTCTTCTTTAACCAAAAAGGAAAGACAA
CGGTTTGTGTGCACTTCCCGACATACCTGTGTCTTCGTGTGCCTGCCTTCCCTCCCTCCTCCCCACCGGGCCGGA
CTGTACAGAGCCCTGCTGCGGCGTGTTAGGAATGACCTGGAATTGTCAATAAACAGATGCTGCTGTCAAAAAAAA
AAAAAAA

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FIGURE 18

MPSSPLRVAVVCSSNQNRSM EAHNLSKRGFSVRSFGTGTHVKLP GPAPDKPNVYDFKTTYDQMYNDLLRKDKEL
YTQNGILHMLDRNKRIKPRPERFQNC KDLFDLILTCEERVYDQVVEDLNSREQETCQPVHVVNVDIQDNHEEATL
GAFLICELCQCIQHTEDMENEIDELLQEFEEKSGRTFLHTVCFY

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FIGURE 19

CCTGGCCACCGGCTCGCGGCGGTGGAGGCTGCTCCAGCCGCGCCCGAGTCAGACTCGGGTGGGGGTCCCGGCG
GCGGTAGCGGCGGCGGCGGTGCGAGCATGTCGTGGCTCTTCGGCGTTAAAGGGCCCCAAGGGTGAAGGCGCGG
GGCCGCGCGGCGCTTTGCCGCGCGCAGCCCGGGGCGAGGGCGGCGGGGACCGCGGTTTGGGAGACCGGCGCGG
CGCCCCAAGGACAAATGGAGCAACTTCGACCCACCGGCTGGAGCGCGCCGCAAGGCGGCGCGGAGCTGGAGC
ACTCGCGTTACGCCAAGGAGGCCCTGAATCTGGCGCAGATGCAGGAGCAGACGCTGCAGTTGGAGCAACAGTCCA
AGCTCAAAGAGTATGAGGCCGCGTGGAGCAGCTCAAGAGCGAGCAGATCCGGGCGCAGGCTGAGGAGAGGAGGA
AGACCTGAGCGAGGAGACCGGCGCAGCACCAGGCCAGGGCCAGTATCAAGACAAGCTGGCCCGGCGAGCGCTACG
AGGACCAACTGAAGCAGCAGCAACTTCTCAATGAGGAGAATTTACGGAAGCAGGAGGAGTCCGTGCAGAAGCAGG
AAGCCATGCGGCGAGCCACCGTGGAGCGGGAGATGGAGCTGCGGCACAAGATGAGATGCTGCGAGTGGAGACCG
AGGCCCGGGCGCGCGCCAAAGGCCGAGCGGGAGAATGCAGACATCATCCGCGAGCAGATCCGCCTGAAGGCGTCCG
AGCACCGTCAGACCGTCTTGGAGTCCATCAGGACGGCTGGCACCTTGTGGGGAAGGATTCCGTGCCTTTGTGA
CAGACCGGGACAAAGTACAGCCACGGTGGCTGGGCTGACGCTGCTGGCTGTCGGGGTCTACTCAGCCAAGAATG
CGACAGCCGTCACTGGCGGCTTCATCGAGGCTCGGCTGGGGAAGCCGTCCCTAGTGAGGGAGACGTCCCGCATCA
CGGTGCTGGAGGCGCTGCGGCACCCATCCAGGTCAGCCGGCGGCTCCTCAGTCGACCCAGGACGTGCTGGAGG
GTGTTGTGCTTAGTCCAGCCTGGAAGCAGGGTGC GCGACATCGCCATAGCAACCAGGAACACCAAGAAGAACC
GGGCGCTGTACAGGCACATCCTGCTGTATGGGCCACCAAGGACCGGGAAGACGCTGTTGCCAAGAACTCGCCC
TGCACTCAGGCATGGAATACGCCATCATGACAGGCGGGGACGTGGCCCCCATGGGGCGGGAAGGCGTGACCGCCA
TGCACAAGCTCTTTGACTGGGCCAATACCAGCCGGCGCGGCTCCTGCTCTTCATGGATGAAGCAGACGCCTTCC
TTCGGAAGCGAGCCACTGAGGAGATAAGCAAGGACCTCAGAGCCACACTGAACGCCTTCTGTACCACATGGGCC
AACACAGCAACAAATTCATGCTGGTCTTGCCAGCAATCTGCCTGAGCAGTTCGACTGTGCCATCAACAGCCGCA
TTGACGTGATGGTCCACTTCGACCTGCCGAGCAGGAGGAGCGGGAGCGCCTGGTGAGACTGCATTTTGACAACT
GTGTTCTTAAGCCGGCCACAGAAGGAAAACGGCGCCTGAAGCTGGCCAGTTTACTACGGGAGGAAGTGTCTGG
AGGTGCTCGGCTGACGGAGGGCATGTGCGGCCGGGAGATCGCTCAGCTGGCCGTGTCTGGCAGGCCACGGCAT
ATGCCTCCAAGGACGGGGTCTCTACTGAGGCCATGATGGACGCTGTGTGCAAGATGCTGTCCAGCAGTACCGAC
AGAAGATGCGCTGGCTGAAGGCGGAGGGGCTGGGCGCGGGGTCGAGCACCCCTATCCGAGTCCAAGGCGAGA
CCCTCACCTCATGGAGCCTGGCCACGGACCCCTCCTACCCCTGCCTTGCCGGCCCTGCACATTTAGGATATGCT
CCTGGATGGGGACTGGGCTGTGCCAGGGCCTCTGTCCCCAGGATGTCTTGTGGTGGCGGTGGGCCGTTCTGCC
CCCCAGGGCACCCCTGTTGTAGGCACTGGCTAGGGAGGGGAGGCTCCTTCTGCCCCCTCGAGACACTCTTGG
GAGATGCATTTTCCGTCTGGCTCACAGGGGAGGGTGAAGCTTTGTACCCAGCCCTGCCAGGCACTGTGAG
GGTGGGTGCTGGCTGAGCCCTGGGGCAGAAGGAGTGGGGCAGGCGGGTCTTTGTTCTCGGCTCCACAGCAGA
GCCAGGTGAGGGGGGCTGCCAGGACTAGACAGAAGTGGGGCGGC

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FIGURE 20

ATGAGGCTGCAGAGTGATGTGGGGGCCAGCGGTGACTTCATGACCACACTGCGCCCAGGTGTAAGAGGGCACGCT
TCTGCCCAGGCATCGTCCATGGAAGACACGCAGTCGGCCACTGCAGCCTCGGTCTGGGTGCCCTGGGGCTGGGT
CACTGGGGGCCACAGGCCACACTGAGAGACCACAGTCCTGGCATGCCATGCAGCTCCCTGTCCCCAGAGGCCATG
TCAAAGGACGCCCTGAATCTGGCGCAGATGCAGGAGCAGACGCTGCAGTTGGAGCAACAGTCCAAGCTCAAACAA
CTTGTCATGAGGATTTACGGAAGCAGGAGGAGTCCGTGCAGAAGCACCATCAGACCTTCTTGAGTCCATCAGG
GCGGCTGGCACCTTGTTTGGGGAAGGATTCCGTGCCTTTGTGACAGACCGGGACAAAGTGACAGCCACGGTGGCT
GGGCTGACGCTGCTGGCTGTGGGGTCTACTCAGCCAAGAATGCGACAGCCGTCACTGGCCGCTACATCGAGGCT
CGGCTGGGGAAGCCGTCCCTAGTGAGGGAGACGTCCCGCATCAGGTGCTTGAGGCGCTGCGGCACCCCATCCAG
CAGGTCAGCCGGCGGCTCCTCAGTCGACCCAGGACGTGCTGGAGGGTGTGTGCTTAGTCCCAGCCTGGAAGCA
CGGCTGCGCGACATCGCCATAATGACAAGGAACATCAAGAAGAACCGGGGCTGTACAGGCACATCCTGCTGTAC
GGGCCACCAGGCACCGGGAAGACGCTGTTTGCCAAGAACTCGCCCTGCACTCAGGCATGGACTACGCCATCATG
ACAGGCGGGGACGTGGCCCCCATGGGGCGGGAAGGCGTGACCGCCATGCACAAGCTCTTTGACTGGGCCAATACC
AGCCGGCGCGGCTCCTGCTCTTTGTGGATGAAGCGGACGCTTCCTTCGGAAGCGAGCCACTGAGAAGATAAGC
GAGGACCTCAGGGCCACACTGAACGCCTTCCTGTACCGCACGGGCCAGCACAGCAACAAATTCATGCTGATCCTG
GCCAGCTGCCACCCGAGCAGTTCGACTGGGCCATCAATGCCTGCATCGACGTGATGGTCCACTTCGACCTGCCA
GGGCAGGAGGAGCGGGCGCGCTGGGATTGGAGGGAGAGGCTCCTCATGAGACCCCATGTGCGGACTAGAGGGA
GAGGCTCCTCATGGTCCACTGCTGGCTTCTGGCCTGGCCTCCCTGCAGCTGCCACACCCGGCCCTGGAGCCTCGT
GGTGTGGGGCGCGGCTCTTGCTTCCTGCTGCACATGTGCCTTGAGGCTGTCAGGCTCCCTGTTGCTGGCGGGCCC
CGGTTTCTGAGTCCTTCTGTGCACCTGACCCAAATCCCTGCTGTGCCAGTGACGACAAAAGCTGCTCTGTTCCA
AAGAGAGCCTGGTTCTCCCCTGCCGACCCCTCCACTGCCGCTGCTCCATGCTAGACCAGCTTTCCGGGCGTCTG
AAGCTGGCCAGTTTGACTACGGGAGGAAGTGCTTAGAGATCGCTCGGCTGACAGAGGGCATGTATGCCGGAAG
ATCGCACAGCTGGCCGTGCTCCTGGCAGGCCACGGCGTATGCCTCCAAGGACGGGGTCTGACCGAGGCCATGATG
GACGCTGCGTGCAAGACTTTGTCCAGCAGCACCAGCAGATGATGCGCTGGCTGAAGGGGGAGAGGCCTGGGCCC
GAGGACGAGCAACCCTCATCCTTGA

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FIGURE 21

MRLQSDVGASGDFMTTLRPGVRGHASQAASSMEDTQSATAASVLGALGLGHWGPQATLRDHSPGMPCSSLSPEAM
SKDALNLAQMQEQTQLQEQSKLKQLVNEDLRKQEEVQKHHQTFLESIRAAGTLFGEGFRAVVTDRDKVTATVA
GLTLLAVGVYSAKNATAVTGRYIEARLGKPSLVRETSRITVLEALRHP IQQVSRLLSRPQDVLEGVVLSPSLEA
RVRDIAIMTRNIKKNRGLYRHILLYGPPGTGKTLFAKKLALHSGMDYAIMTGGDVAPMGREGVTAMHKLFDWANT
SRRGLLLFVDEADAF LRKRATEKISED LRATLNAFLYRTGQHSNKFMLILASCHPEQFDWAINACIDVMVHFDLP
GQEERARLGEAGEAPHETPMGLEGEAPHGPLLASGLASLQLPHPALEPRGVGRGSCFLLHMCLEAVRLPVAGGP
RFLSPSVHLTQIPAVASDDKSCSVPKRAWFSPADPSTAACSMQLDQLSGRLKLAQFDYGRKCLEIARLTEGMSCRK
IAQLAVSWQATAYASKDGVLTEAMMDACVQDFVQQHQMMRWLKGGERPGPEDEQPSS

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FIGURE 22

AAGTGCCCGAGGGCGGCCGCAGAACGGTCAATTTGAGCCGCGTCGAGCTCCCCTGGGACCTGTGGCCGCCGCCCA
CAGACCATGCTCCTGGGGCGCCTGACTTCCCAGCTGTTGAGGGCCGTTCTTGGGCAGGCGGCCGCCCGCCTTGG
CCCGTCTCTGGAGTGCTGGGCAGCCGGGTCTGCGGGCCCCCTTTACAGCACATCGCCGGCCGGCCAGGTAGGGCG
GCCTCTCTCCCTCGCAAGGGGGCCCAGCTGGAGCTGGAGGAGATGCTGGTCCCCAGGAAGATGTCCGTCAGCCCC
CTGGAGAGCTGGCTCACGGCCCGCTGCTTCTGCCCAGACTGGATACCGGGACCGCAGGGACTGTGGCTCCACCG
CAATCCTACCACTGTCCGCCCAGCCAGATAGGGGAAGGGGCCGAGCAGGGGGATGAAGGCGTCGCGGATGCGCCT
CAAATTCAGTGCAAAAACGTGCTGAAGATCCGCCGGCGGAAGATGAACCACCACAAGTACCGGAAGCTGGTGAAG
AAGACGCGGTTCTGCGGAGGAAGGTCCAGGAGGGACGCCTGAGACGCAAGCAGATCAAGTTCGAGAAAGACCTG
AGGCGCATCTGGCTGAAGGCGGGGCTAAAGGAAGCCCCGAAGGCTGGCAGACCCCAAGATCTACCTGCGGGGC
AAATGAGTCTGGCGCCGCCCTTCCCGCCCGTTGCTGCTGTGATCCGTAGTAATAAATTCTCAGAGGACTCAGCCT
TTAA

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FIGURE 23

MLLGRLTSQLLRAVPWAGGRPPWPVSGVLGSRVCGPLYSTSPAGPGRAASLPRKGAQLELEEMLVPRKMSVSPLE
SWLTARCF LPRLDGTAGTVAPPQSYQCPPSQIGEGAEQGDEGVADAPQIQCKNVLKIRRRKMNHKRYRKLVKKT
RFLRRKVQEGRLRRKQIKFEKDLRRIWLKAGLKEAPEGWQTPKIYLRGK

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FIGURE 24

CGGGTGC GG GCGGGGCGGGGCGCAGGCGGGGCGGGGTAGCGCCCCGCGTCCGAGCCCCGGGCGGGCCCTGAG
CGCGCGGGCTCCGCGCCGCCCGCGGCCATGCGGAGACCAAGATTATCTACCACATGGACGAGGAGGAGACGCC
GTACTTGGTCAAGCTGCCCGTGGCCCCGAGCGCGTCACGCTGGCCGACTTCAAGAACGTGCTCAGCAACCGGCC
CGTGACGCCTACAAATTCTTCTTAAGTCCATGGACCAGGACTTCGGGGTGGTGAAGGAGGAGATCTTTGATGA
CAATGCCAAGCTTCCCTGCTTCAACGGCCGCGTGGTCTCCTGGCTGGTCTGAGGGTGTCTACTCGGATGC
GGGGTCCCAGGGCAGGACAGCCACACAGACCTGCCCCCGCCTCTTGAGCGGACAGGCGGCATCGGGGACTCCCG
GCCCCCTCCTTCCACCCAAATGTGGCCAGCAGCCGTGACGGGATGGACAACGAGACAGGCACGGAGTCCATGGT
CAGTCACCGGCGGGAGCGTGCCCGACGCCGGAACCGCGAGGAGGCCGCCCGGACCAATGGGCACCCAAGGGGAGA
CCGACGGCGGGATGTGGGGCTGCCCCAGACAGCGCGTCCACCGCCCTCAGCAGCGAGCTTGAGTCCAGCAGCTT
TGTGGACTCGGACGAGGATGGCAGCAGCAGGCTCAGCAGCTCCACGGAGCAGAGCACCTCATCCAGACTCAT
CCGGAAGCACAACCGCCGGCGGAGGAAGCAGCGCCTTCGGCAGGCGGACCGGGCCTCCTCCTTCAGCAGCATAAC
CGACTCCACCATGTCCCTCAACATCGTCACTGTACGCTCAACATGGAAAGACATCACTTTCTGGGCATCAGCAT
CGTGGGGCAGAGCAACGACCGTGGAGACGGCGGCATCTACATTGGCTCCATCATGAAGGGCGGGGCTGTGGCCGC
TGACGGCCGCATCGAGCCCGGCGACATGTTGCTGCAGGTGAATGACGTGAACCTTGAGAACATGAGCAATGACGA
TGCCGTGCGGGTGTGCGGGAGATCGTTTCCAGACGGGGCCCATCAGCCTCACTGTGGCCAAGTGTGGGACCC
AACGCCCCGAAGCTACTTCACCGTCCCACGGGCTGACCCGGTGCGGCCCATCGACCCGCGGCTGGCTGTCCCA
CACGGCGGCACTGACAGGAGCCCTGCCCCGTACGAGCTGGAAGAGGCGCCGCTGACGGTGAAGAGTGACATGAG
CGCGTCTGTCGGGTTCATGCAGCTGCCAGACTCGGGACTGGAGATCCGCGACCGCATGTGGCTCAAGATCACCAT
CGCCAATGCCGTTCATCGGGGCGGACGTGGTGGACTGGCTGTACACACAGTGGAGGGCTTCAAGGAGCGGCGGGA
GGCCCGGAAGTACGCCAGCAGCTTGTGAAGCAGGCTTCTGCGGCACACGGTCAACAAGATCACCTTCTCCGA
GCAGTGTACTACGTCTTCGGGGATCTCTGCAGCAATCTCGCCACCCTGAACCTCAACAGTGGCTCCAGTGGGAC
TTCGGATCAGGACACGCTGGCCCCGCTGCCCCACCCGGCTGCCCTCTGGCTCAGGGCTACCCCTACCA
GTACCCGGGACCCCCACCTGTCTCCCGCTGCCCTACCAAGACCGGGCTTTAGCTATGGCAGCGGCACCCGG
GAGTCAGCAGAGTGAAGGAGCAAAAGCAGTGGGTCCACCCGGAGCAGCCGCGGGCCCCGGGCGGTGAGAAGGA
GCGTCGGGCGGCGGGAGCTGGGGGCAGTGGCAGTGAATCGGATCACACGGCACCGAGTGGGGTGGGGAGCAGCTG
GCGAGAGCGTCCGGCCGGCCAGCTCAGCCGTGGCAGCAGCCACGAGTCAGGCCTCGGCTACCGCCCCGGGCT
CCCCCGCCCCACCCACGACCAAGGCCTATACAGTGGTGGGGGGGCCACCCGGGGGACCCCTGTCCGGGAGCT
GGCTGCCGTCCCCCGGAATTGACAGGCAGCCGCCAGTCTTCCAGAAGGCTATGGGGAACCCCTGCGAGTTCTT
CGTGGACATCATGTGACTCGTGGCGCATGCCCCAGCCCTGCCTGAGGTGGGGAGCTGGCGGTCTGCGCATGCA
GAGCTCGCGTGGGCTTGCTTCGTGGGGGCCAGGACGGGAGGAGGCTGGGGGGCAGGCTGGACCACCACCATCT
GCCCTGGCAGCCTGGCTGCTCCAGCTCCTGACAGCACCTGTGCTGAGCAGCCGTGTTGGGGGCGCTCCCTCTCT
GCCCCCTCAGCGAGAGCCTCGGACCTCCCAACCCCTTGTGTCTGGTGGGGATCCCTCCTGGGATGAGGAAGACCC
CTCGGGCTCTCGGCTGACCCCCACCTCCTGCACAGCTGTGCCAGGCCCCAGGGTGGTCCATGCGGGGCAACCC
CCTGCGGTGCACAGGCCCCCTGTCTGGAGTAGGGATCTAATTTATTTATTTATTGCTGGCCGGTGACTCGGGGG
AGGAGGCGACCCCTGTCTGTCTGCCACCTGCTGCTGCCCTTGGAGCAGCCTGCACCTTCTCTCTCCCATCCGG
CAACAGTCTGAAAGTACGTGGAGGACGGGACCGGAAGACGAGAGAGGGCTGGACATCCTGCCACCGTGTCCAG
CCAGGGCAGGGAGGGACCATGGCCCGCAGGGTCAAGGGGCCCCGATGTGCACAGCTGCCACAGGGAGGGAGGTCT
TGGGGAGATGGGCAGTCAGGTGGCCCGTCTTGGTGGTGCACACACTGCGCGCACACATCGCGGCCCTTCTGGC
TTCTCTGGCCCCACGTGTCTGTGCTGTAGATACTGTATCAAAGTCCCAGCGTTTAGATGGTTAACATAGAGCTG
CTTCTGTGTAAATGCTGCTTATTTTAAACACTAAAAAGCGTTTAAATTTATGGG

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FIGURE 25

MAETKIIYHMDEEETPYLVKLPVAPERVTLADFKNVLSNRPVHAYKFFFKSMDQDFGVVKEEIFDDNAKLPCFNG
RVVSWLVLAEGAHS DAGSQGTDSHTDLPPPLERTGGIGDSRPPSFHPNVASSRDGMDNETGTESMVSHRRERARR
RNREEAARTNGHPRGDRRRDVG LPPDSASTALSSSELESSSFVDSDEDGSTSR LSSSTEQSTSSRLIRKHKRRRRK
QRLRQADRASSFSSITDSTMSLNIVTVTLNMERHHFLGISIVGQSNDRGDGGIYIGSIMKGGAVAADGRIEPGDM
LLQVNDVNFENMSNDDAVRVLREIVSQTGPISLTVAKCWDPTPRSYFTVPRADPVRPIDPAAWLSHTAALTGALP
RYELEEA PLTVKSDMSAVVRVMQLPDSGLEIRDRMWLKITIANAVIGADVVDWLYTHVEGFKERREARKYASSLL
KHGFLRHTVNKITFSEQCYVFGDLCSNLATLNLNSGSSGTS DQDTLAPLPHPAAPWPLGQGYPYQYPGPPPCFP
PAYQDPGFSYSGSGTGSQQSEGSKSSGSTRSSRRAPGREKERRAAGAGGSGSES DHTAPSGVGSSWRERPAGQLS
RGSSPRSQASATAPGLPPPHPTTKAYTVVGGPPGGPPVRELA AVPELTGSRQSFQKAMGNPCEFFVDIM

GACACCGCCCCCGCCGCAAGAAAGATGGCAGTGGCCTGATCCGGGCCCGTTGGCGGCGTCACTGACGCTTCGCTC
CGGTCTCTCGGATCCCGAGCGCGGGGAGGCAGACCGACTGTGAGCTGCTTGTCCCCATCCTGCGGCCGCTCTGGGG
ACACAGAGCCCTCCGTGGTGCCCGGGGATTGGATTGGAGCCAGGACCTCACTTCTCTCTGCCCCCTGCCCTGC
CCCTCCAGCACCTGGCCACACCCTGCAGCCCGCCCCATGGTCTGGCCCTGGGTGGCGATGGCGTCCAGGTGGG
GTCCCCCTATTGGCTGGCTCCGTGCTGCCTCTGGCTCTGGGGGCGAGTCCTTCTGATGGACGCGTCTGCACGG
CTGCCAACCACCTCGTCCACTCGAGAGAGAGTAGCCAACAGGGAGGAGAATGAGATCCTGCCCCCAGACCACCTGA
ACGGGGTGAAGCTGGAGATGGACGGGCACCTCAATCGCGGCTTCCACCAGGAGGTCTTCTAGGCAAGGACCTGG
GTGGCTTTGATGAGGACGCGGAGCCGCGCGGAGCCGGAGGAAGCTGATGGTCATCTTTTCCAAGGTGGATGTGA
ACACTGACCGGAAGATCAGTGCCAAGGAGATGCAGCGCTGGATCATGGAGAAGACGGCCGAGCACTTCCAGGAGG
CCATGGAGGAGAGCAAGACACACTTCCGCGCCGTGGACCCTGACGGGGACGGTCACGTGTCTTGGGACGAGTATA
AGGTGAAGTTTTTGGCGAGTAAAGGCCATAGCGAGAAGGAGTTGCCGACGCCATCAGGCTCAACGAGGAAGTCA
AAGTGGACGAGGAAACACAGGAAGTCTTGAGAACCTGAAGGACCGCTGGTACCAGGCGGACAGCCCCCTGCAG
ACCTGCTGCTGACGGAGGAGGAGTTCCTGTCTGCTTCTCCACCCGAGCACAGCCGGGGAATGCTCAGGTTTCATGG
TGAAGGAGATCGTCCGGGACCTGGACCAGGACGGTGACAAGCAGCTCTCTGTGCCCGAGTTTCATCTCCCTGCCCG
TGGGCACCGTGGAGAACCAGCAGGGCCAGGACATTGACGACAACCTGGGTGAAAGACAGAAAAAGGAGTTTGAGG
AGCTCATTGACTCCAACCACGACGGCATCGTGACCGCCGAGGAGCTGGAGAGCTACATGGACCCCATGAACGAGT
ACAACGCGCTGAACGAGGCCAAGCAGATGATCGCCGTGCGCGACGAGAACCAGAACCACCACCTGGAGCCCCGAGG
AGGTGCTCAAGTACAGCGAGTTCTTCACGGGCAGCAAGCTGGTGGACTACGCGCGCAGCGTGCACGAGGAGTTTT
GAGCGCCCCGGCCGCGCCCCGCGCGCCCCCACGCACCACCGGGGCGGCCCTCGCGGGTGACTCCGGGCTCCGTGG
CTGTCCCGGACCCACCTCTTCCCTGCCGCGCGCCACCGGCCGACCGACCGCGGCTGCCCCAGTTGATGAGCGGC
GTGTCCCTCTGCAGCGCGCACCCGGCGGGGCTTTGGCTGTGACGCGGTTCGGGGCGCGGGGCTGGGCTGTGGCC
CCGCGGCGCGCCCTCCTCCCTGGTCCCTCGAAATCGTGGCATCTCACTTCTGAGAACGAAATCTCGCTTCAGTCA
CTCTGCCGAAGGCGTGACGGCATCGCGCCGGAACCTCTGGGCCCCGGCCCCCTCCAGGGCCGCCGCTCCGTGGG
AAAAACAGCTCTCTCAATTTCTTTGAAAACCTGAACGATTATTAATAATAGATTAAACTTCGCTGGAAATGAGTAG
CCAGGAAGATTACGGGAGGGTGCCGGGTCTTCCGGGCCCTGGCGTGTGCGGAGCCACCAGGTCCCGCGAGCTGCC
GCTGAGAAAATGCAAAATATTTGTTGTGACAAGAATCACATACATTACTTTAAATATAGTTGCCTTTTTTGGTCA
GCTTCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 27

MVWPWVAMASRWGFLIGLAPCCLWLLGAVLLMDASARPANHSSTRERVANREENEILPPDHLNGVKLEMDGHLNR
GFHQEVFLGKDLGGFDEDAEPRRSRRKLMVIFSKVDVNTDRKISAKEMQRWIMEKTAEHFQEAMEESKTHFRAVD
PDGDGHVSWDEYKVKFLASKGHSEKEVADAIRLNEELKVDEETQEVLENLKDRWYQADSPPADLLLTEEEFLSFL
HPEHSRGMLRFMVKEIVRDLDDQDGDKQLSVPEFISLPVGTVENQQGQDIDDNWVKDRKKEFEELIDSNHDGIVTA
EELESYMDPMNEYNALNEAKQMIAVADENQNHLEPEEVLKYSEFFTGSKLVDYARSVHEEF

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FIGURE 28

AAGGGGCCAAAAGGTCCACCTGATGAACCTGTTGCACGCGAAAAGTTCAGAACCACTGCTGCCAAGATGCTGACA
GAAGCCTTGAGAAGCACCTGCTGCGGGAAAAGACGTGCAGGCCTCACAGGTGCAGTGCGGTCTTCAGCGCGCTTG
AAAGCACGAAGTTGTTTCGGCAGCCAGGTTGGCCTCTGCCCAGGAAGTTGCTGGTTCACGTCTGCCAAGACAGCA
TGTCTGACCCGGGCCCTGATCCTAGCACCCGCCCACCCGTGTACTTCCTCATCCCACAAAGCCACAGACACGCGA
ACGTCCAAGAAGTTCAAATGTGACAAAGGACATCTTGTGAAGTCAGAATTACAGAAGCTTGTCCCTAAGAATGAC
AGCGCTTCTTTGCCAAAAGTGACACCTGAGACCCCTTGTGAAAATGAGTTTGCTGAAGGCAGTGCCCTTGCTTCCA
GGCAGCGAGGCTGGCGTTTCTGTGCAGCAGGGGGCTGCAAGTCTTCCTCTCGGTGGCTGCAGAGTTGTGAGTGAC
TCTCGCTTAGCAAAGACTAGAGATGGCCTGTCCGTGCCAAAACACAGTGCCGGGTCCGGAGCAGAAGAATCCAAC
AGCAGCTCCACTGTGCAGAAGCAGAATGAGCCAGGGCTACAGACAGAGGATGTGCAGAAGCCACCACTTCAGATG
GACAACAGCGTCTTTCTAGATGACGACAGCAATCAGCCAATGCCCGTGAGCCGGTTCTTTGGAAACGTTGAGCTC
ATGCAGGCCATAGAGAGGTCCGTGTGCAGCTGCCTGACGAGAACTGCATTCCCCAGCCCCAGCGGCGTCAGGGAG
CACCTCACCGTGTGTTCTCGCCCAGGGCAGTGGAGACAAGCCATTGGGAGTGCTCTCTCCATGGCCTCTTCCTGC
CGCCACCTGCACATAGAAGCTGAGTGGACCAACCAGGAGCAAGCTGGGGTCCCCGGGTGA

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FIGURE 29

AGAGGCGAGAACGACCCCGGGACCGACCAAAGCCCGCGCGCCGCGCATCCCGCGTACAGCACCTACATCCCGCC
ACCGTCACCGCCACCACCATGCCCAAGAGAAAGGCTGAAGGGGATGCTAAAGGAGGTAAAGCCAAGGTGAAGGAC
GAACCACAGAGAAGGTCTGCAAGGTTGTCTGCTAAACCTGCTCCTCCAAAGCCAGAGCCCAAGCCTAAAAAGACC
CCTGCAAAGAAGGCAGAGAAGGTACCCAAAGGGAAAAAGGGAAAAGCTGATGCCCAGGAGGAGGGATTCCCTGAC
TTTGACACACATGGCCACCTTGGCACAAAAGCCTTGTGGTGTGGAAAAACAAATTTGTTTTTATGTCCTCTTCTC
CCTTTCCATCTTTTACGCATAGACTTAACTCCTTTAATCCCAGGCATCTGTTGGGACCTGACCCCTAGTCATTGGT
TACCAGTGTGTCAGGCAATCTGGACTTTCCAGTGATGCCACTGAGATGGCACCTGTCAAAGAGCAGTGGTTCCA
TTTCTAGATTGTGGATCTTCAGATAAATCTGCCATTTTCATTTCACTTCCTGAAAGTCAGAGTCGGCTTGTGAA
AAGTTGTTAAACAACATGCTAAATGTGAAATGTCAACCCTCACTCTAAACTTTCCCTGTTTCAGAGCATGAGATGA
AGACTTCTTTGGGTTTTATAGCGGCTTCTGATTTTTCGTAGTCCATTGAAGAAGGGAGTTTGAAAGTTGTTGTA
TACTGTAAACAATTGTCTGCCCATGTCCTGCCTGAAATACCA

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FIGURE 30

MPKRKAEGDAKGGKAKVKDEPQRRSARLSAKPAPPKPEPKKTPAKKAEKVPKGKKGKADVDTHGHLGTKALWC
GKTNLFLCPLLPHLSA

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FIGURE 31

TAGCTAGGCAGGAAGTCGGCGCGGGCGGCGGACAGTATCTGTGGGTACCCGGAGCACGGAGATCTCGCCGGCT
TTACGTTACCTCGGTGTCTGCAGCACCTCCGCTTCTCTCCTAGGCGACGAGACCCAGTGGCTAGAAGTTCAC
CATGTCTATTCTCAAGATCCATGCCAGGGAGATCTTTGACTCTCGCGGGAATCCCACTGTTGAGGTTGATCTCTT
CACCTCAAAAGGTCTCTTCAGAGCTGCTGTGCCCAGTGGTGTCTCAACTGGTATCTATGAGGCCCTAGAGCTCCG
GGACAATGATAAGACTCGCTATATGGGGAAGGGTGTCTCAAAGGCTGTTGAGCACATCAATAAACTATTGCGCC
TGCCCTGGTTAGCAAGAACTGAACGTCACAGAACAAGAGAAGATTGACAACTGATGATCGAGATGGATGGAAC
AGAAAATAAATCTAAGTTTGGTGCGAACGCCATTCTGGGGGTGTCCCTTGCCGTCTGCAAAGCTGGTGCCGTTGA
GAAGGGGTCCCCCTGTACCGCCACATCGCTGACTTGGCTGGCAACTCTGAAGTCATCCTGCCAGTCCCGGCGTT
CAATGTCATCAATGGCGGTTCTCATGTCTGGCAACAAGCTGGCCATGCAGGAGTTCATGATCCTCCAGTCGGTGC
AGCAAACCTCAGGGAAGCCATGCGCATTGGAGCAGAGGTTTACCACAACCTGAAGAATGTCATCAAGGAGAAATA
TGGGAAAGATGCCACCAATGTGGGGGATGAAGGCGGGTTTGTCTCCCAACATCCTGGAGAATAAAGAAGGCCTGGA
GCTGCTGAAGACTGCTATTGGGAAAGCTGGCTACACTGATAAGGTGGTTCATCGGCATGGACGTAGCGGCCTCCGA
GTTCTTCAGGTCTGGGAAGTATGACCTGGACTTCAAGTCTCCCGATGACCCAGCAGGTACATCTCGCCTGACCA
GCTGGCTGACCTGTACAAGTCCTTCATCAAGGACTACCCAGTGGTGTCTATCGAAGATCCCTTTGACCAGGATGA
CTGGGGAGCTTGGCAGAAGTTCACAGCCAGTGCAGGAATCCAGGTAGTGGGGGATGATCTCACAGTGACCAACCC
AAAGAGGATCGCCAAGGCCGTGAACGAGAAGTCCTGCAACTGCCTCCTGCTCAAAGTCAACCAGATTGGCTCCGT
GACCGAGTCTCTTCAGGCGTGCAAGCTGGCCCAGGCCAATGGTTGGGGCGTCATGGTGTCTCATCGTTCCGGGGGA
GACTGAAGATACCTTCATCGCTGACCTGGTTGTGGGGCTGTGCACTGGGCAGATCAAGACTGGTGCCCTTGCCG
ATCTGAGCGCTTGGCCAAGTACAACCAGTCTCTCAGAATTGAAGAGGAGCTGGGCAGCAAGGCTAAGTTTGCCGG
CAGGAACCTCAGAAACCCCTTGGCCAAGTTAAGCTGTGGGCAGGCAAGCCCTTCGGTCACCTGTTGGCTACACAGA
CCCCTCCCCTCGTGTGCTCAGCTCAGGCAGCTCGAGGCCCGACCAACACTTGCAAGGGTCCCTGCTAGTTAGCGCC
CCACCGCCGTGGAGTTGCTACCGCTTCCTTAGAACTTCTACAGAAGCCAAGCTCCCTGGAGCCCTGTTGGCAGCT
CTAGCTTTGCAGTCGTGTAATTGGCCCAAGTCATTGTTTTCTCGCCTCACTTCCACCAAGTGTCTAGAGTCAT
GTGAGCCTCGTGTATCTCCGGGGTGGCCACAGGCTAGATCCCCGGTGGTTTTGTGCTCAAAATAAAAAGCCTCA
GTGACCCATGAG

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FIGURE 32

MSILKIHAREIFDSRGNPTVEVDLFTSKGLFRAAVPSGASTGIYEALERDNDKTRYMGKGVSKAVEHINKTIAP
ALVSKKLVNTEQEKIDKLMIEMDG TENKSKFGANAILGVSLAVCKAGAVEKGVPLYRHIADLAGNSEVILPVPAF
NVIINGGSHAGNKLAMQEFMILPVGAANFREAMRIGAEVYHNLKNVIEKEYGKD ATNVGDEGGFAPNILENKEGLE
LLKTAIGKAGYTDKV VIGMDVAASEFFRSGKYDLDFKSPDDPSRYISPDQLADLYKSF IKDYPVVSIEDPFDQDD
WGAWQKFTASAGIQVVGDDLTVTNPKRIAKAVNEKSCNCLLLKVNQIGSVTESLQACKLAQANGWGMVSHRSGE
TEDTFIADLVVGLCTGQIKTGAPCRSERLAKYNQLLRIEEEELGSKAKFAGRNFRNPLAK

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FIGURE 33

TGGTCCCAAGGCGCGTGCTTTGCAGCAGATGTGTGACCTGGCGTTCCCCTGAGTGCTCGGAAAATGGCCTTGTCT
CCGGTCGTTCCCGTTCAGGAGCAGAAATTTCCCACTGTAAAAAACCGAGCAAGTCTGGATAAGTGAGGCTGGCTC
CATGTATCCAGAATCAACGACGGGCTCCCCGGCTCGGCTCTCGCTGCGGCAGACGGGCTCCCCGGGATGATCTA
CAGTACTCGGTATGGGAGTCCCAAAAGACAGCTCCAGTTTACAGGAACCTGGGCAAGTCTGGCCTGCGGGTCTC
CTGCCTGGGACTTGGAAATGGGTGACCTTCGGAGGCCAGATCACCGATGAGATGGCAGAGCAGCTCATGACCTT
GGCCTATGATAATGGCATCAACCTCTTCGATACAGCAGAAGTCTACGCAGCCGGCAAGGCTGAAGTGGTACTGGG
AAACATCATTAAAGAAGAAAGGATGGAGGCGGTCCAGCCTCGTCATACCACCAAGATCTTCTGGGGCGGAAAGGC
GGAGACGGAGCGGGGCTGTCCAGGAAGCACATAATCGAAGGTCTGAAAGCTTCCCTGGAGCGACTGCAGCTGGA
GTACGTGGATGTGGTGTGTGCAACCGCCCGGACCCCAACACCCCGATGGAAGAGACCGTCCGCGCCATGACCCA
CGTCATCAACCAGGGGATGGCCATGTACTGGGGCACGTACGCTGGAGCTCCATGGAGATCATGGAGGCCACTC
CGTGGCCCCGGCAGTTCAACCTGACCCCGCCCATCTGCGAGCAGGCTGAGTACCACATGTTCCAGCGTGAGAAAGT
GGAGGTGCAGCTGCCGGAGCTGTTCCACAAGATAGGAGTGGGCGCCATGACCTGGTCCCCTCTGGCCTGTGGCAT
TGTTTCTGGCAAGTACGACAGTGGCATCCACCCCTACTCAAGAGCCTCCTGAAGGGCTACCAGTGGCTGAAGGA
CAAGATCCTCAGTGAGGAGGGCGGCGCCAGCAAGCCAAGCTGAAGGAGTGCAGGCCATCGCCGAGCGCCTGGG
CTGCACCCCTGCCCCAGCTGGCCATAGCCTGGTGCCTGAGGAATGAGGGAGTCACTCCGTGCTCCTGGGGGCCCTC
CAATGCGGACCAGCTCATGGAGAACATTGGGGCAATACAGGTCTTCCGAACTGTCTATCTCCATTATCCACGA
GATTGATAGTATTTTGGGCAATAAACCTACAGCAAAAAGGACTACAGATCCTAAGCCGCCCCCGCCCGCTGCT
CGGACAGTTTCCGTTCCCTCCTAGTCTCTGTTCTGCTCGCTTAAGCTGTTTGAAGCCAAGTGAAGAGTGTGGTTT
GCATCCAAGAGAAAAACCCACACTGTGATGTATCGGGAAATGATCTCCCAAGTCGCTGCCAGACACCACCCACT
GCTTCGCGGACAATGTGGAAGTCCAGTCTGTGCGGGGAAGGCACTGGTTAGGAAGGATGTTCAAACGGTCCCA
CCCAAGCCTGTACCTCTGCTCATCTCCAAGACCCAGCTTTCTCCAGCCACAGCCAAGATTCCCAAAGTCT
AAGGCCCAAAGATTTCCAAGGTTCCCAAAGTCAAGGCCAGGCCAAGGCCCTGGTTGGGTCTTGGGGCGGGCAGGG
CCAGCCTCTCCTCTGCTGAGAATCCCACTTGGTGTAGGGGAGAGGGGAAAGGGGTCTGGCCATCGAGGGGCC
CCTTCTGCCAGGGCTTGGTTGCTGGGGCAGGGCCTCCCACTGGGGGTCTTCTCCACCTCCCACTTTCCAAGG
GCTCCAGGAATCTGGGGCTGACCACAGATTCTCTCCCATCTTTTCTGCTCCAACCTGCCCCACTGGGTCCCG
GCAGGGCCATGCCTACCAAGCTCGAGCTGGCCCTTGACCCCAACCCACCCCACTTGTGGCAGGGGCAGGG
ACCCAGGGGGATTGACTCTGCACTTGGGAGCCACAAAAGCGTAGCGGTGTGATTTCTAGCTCAGCCTCCAC
CGTCTTCTCTACACACCAATGATGAGCTCATGCCAGTGAGGCCCGGAGCGCTTGGGAGGGGTCCAGTGGGG
CAGGCCCCCTCTGTCTGCCACCCCTCTGTCTGGCCCCGGAAGGCCCTGTGGTCACTGTGCTCCTAGCTGCACGGT
GGCTGCTGGCCACACCACGGCAAGTGGCAGCAGGGGCCGCGCCTGTGCACAAGGATGCACTCCTCTCGGCCCCCTG
TAGACTTTCTCTAAAGCCGCCAGCCAGGCCGCTGCTCTGCACCGAGCTGGTGGGCTTGGGTTTGTGGAG
CGCATGCTTGGACCTTTTCAGTAAGGAAGGGTCTTTGGGGTTTTCTGTGCCCATGACTTGGGGCTGCACCCCCA
CAGCACCCCCACAATGTAGGAAAAGACCTCAGGGAACCTCTCCCTGGAAGACGGGCAGGGCTGGTTAGCCCCCTC
CCACTGCCTGACACCTGGGACAGGCTGGGCAGAGGGGAGAGAGGGCAGGACAGGCCAGAGTGACGCCCCCGTGCA
GCTTGGGGCGGAGGGCAAGGGATGCCAGTAAGTCTGCAGGTGCGGGGTGCCACCTACAGGCCCAGGCCTGTGTCC
CAAGCAGTACCCAGGCTTTGCAGACCACGCGGGGAGGGCTCCACTGAAGCCACCCCAACCCCTCGCCAGCTAGC
TCCATAGGGAAGCCTGTGTCTCTGCCCCAGGGCGCACCCCTCAGTGCAGGCACCTCTGTTCCCGCTTTGCCCCCT
GGAGGAGCCACTATTCCAGAAGGCTCCACCCTGCCGTCTGCGGGAGCCTGCTGTCCAGTCTGGCCGGGCCAAG
GCCTGGGAAACTGTGAAAGTCAGAAAGGCCAGCGGGGAGAGGCTGGGGCGAGGGGAGGAGGGGGATCAGCTTCTG
CTATTACCGACCCCCCTTCATGCTGCCCTGGCGCCTAGAACCCTTGCCCCCTCTCATAGACCAAGTCCCGGGG
TCTCCACTCAGTCTGCTGCTGCTTACCAGAAGCAGCCCTGTGAGTGTGGGGTGGGGAAGTCCCTTCCCAACG
GAGGTCCAGCCTATGGCCCTGGGCCAGGTGGGGGTGCGCTGCTTCCCTCCCGACAGGGTCTGCA

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FIGURE 34

CCTTTCTAACTCCGCTGCCGCCATGGCTCCTGTGAAAAAGCTTGTGGTGAAGGGGGGCAAAAAAGAAGCAAGT
TCTGAAGTTCACCTCTTGATTGCACCCACCCTGTAGAAGATGGAATCATGGATGCTGCCAATTTTGAGCAGTTTTT
GCAAGAAAGGATCAAAGTGAACGGAAAAGCTGGGAACCTTGGTGGAGGGGTGGTGACCATCGAAAGGAGCAAGAG
CAAGATCACCGTGACATCCGAGGTGCCTTTCTCCAAAAGGTATTTGAAATATCTCACCAAAAAATATTTGAAGAA
GAATAATCTACGTGACTGGTTGCGCGTAGTTGCTAACAGCAAAGAGAGTTACGAATTACGTTACTTCCAGATTAA
CCAGGACGAAGAAGAGGAGGAAGACGAGGATTAAATTTTCAATTTATCTGGAAAATTTGTATGAGTTCTTGAATAA
AACTTGGGAACCAAAATGGTGGTTTATCCTTGTATCTCTGCAGTGTGGATTGAACAGAAAATTGGAAATCATAGT
CAAAGGGCTTCCCTTGGTTCGCCACTCATTTATTTGTAACTTGACTTCT

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FIGURE 35

MAPVKKLVVKGKKKKQVLKFTLDCTHPVEDGIMDAANFEQFLQERIKVNGKAGNLGGGVVTIERSKSKITVTSE
VPFSKRYLKYLTKKYLKKNNLRDWLRVVANSKESYELRYFQINQDEEEEEDED

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FIGURE 36A

CGCGCTCGCGGGGGCGGTGGCGCCCGGCACAGAGGGGTTAAGGGGGCGGTGCAGACGTCTCCCCGCCCATCCCG
CCCCTCGAGAGCCGCGGCGCCCCGCCCTATTTATAGCAGCGGTGCCTAGCGCGCCGCTCTCTCCGAGGCCCCG
GCCGCGCGCTCCTCGACAACCTATCGAAGGCGCCATGGAGCGACCGGCGCCCTGGCCGTGCTTCCCTTCTCGGA
CCCCGCGCACGCCCTGAGCCTGCTGCGCGGCCTGAGCCAGCTGCGCGCCGAGCGCAAGTTCTGGACGTGACCCT
GGAGGCGGCGGGCGGGCGCGACTTCCCGGCGCACCGTGCGGTGCTGGCCGCGCCAGCCCCCTACTTCCGCGCCAT
GTTGCGGGGCGAGCTGCGCGAGAGCCGCGCCGAGCGGGTGCGCCTGCACGGAGTGCTCCCGACATGCTGCAGCT
GCTGCTGGACTTCAGCTACACGGGCGCGTGCGGTAAGCGGCGACAACGCTGAGCCGCTGCTGCGCGCCGCCGA
CCTGCTGCAGTTCCCGGCCGTGAAGGAGGCGTGCGGGGCCCTTCTGCAGCAGCAGCTCGACCTGGCCAACTGCCT
GGACATGCAGGACTTCGCTGAGGCCTTCAGCTGCTCGGGACTGGCGAGCGCGGCGCAGCGGTTTATTCTGCGCCA
CGTGGGCGAGCTGGGCGCCGAGCAGCTGGAGCGGCTGCCACTGGCGCGCCTGCTGCGCTACCTGCGGGACGACGG
GCTGTGTGTGCCCAAGGAGGAGGCGCCCTACCAGCTGGCGCTGCGCTGGGTCCGCGCTGACCCGCGCGCCGCGC
CGCGCACTGGCCGAGCTGCTGGAGGCCGTGCGCCTGCCCTTCGTGCGCCGCTTCTACCTGTTGGCGCACGTGCA
GGCCGAGCCGCTGGTGGCGCGCTGCCACCCTGCCTGCGCCTGCTGCGCGAGGCGCGCACTTCCAGGCGGCGCG
CTACGACCGCCACGACCGCGGGCCCTGTCCCCGAATGCGTCTCGCCCGTCCACCGGTCTCGCCGAGATCCTCGT
GCTCGTGGGCGGCTGCGACCAAGGACTGTGACGAGCTGGTCACTGTGCTGCTGCTACAACCCGAGACGGGTCACTG
GCGCTACCTGGCCGAGTTCCAGACCACCTGGGCGGAGGCTACAGCATCGTGGCGCTGGGCAATGACATCTACGT
GACGGGTGGGTCCGATGGCTCCCGGCTCTATGACTGCGTGTGGAGGTACAACCTAAGCGTGAATGAGTGGGCGGA
GGTGGCGCCCATGCTGAAGGCCCGCGAGTACCACAGCTCCTCTGTGCTGGACGGACTGCTGTACGTGGTGGCCGC
CGACAGCACCGAGCGCTATGACCACACCACTGACTCCTGGGAGGCCCTGCAGCCCATGACCTACCCCATGGACAA
CTGCTCCACCACTGCGTGCCGTGGCCGGCTCTATGCCATCGGCTCCCTGGCTGGCAAGGAGACCATGGTGATGCA
GTGCTACGACCCGGACACCGACCTGTGGTTCGTGGTGGACTGCGGCCAGCTCCCGCCCTGGTCTCTCGCCCCAA
GACTGCGACTCTAAACGGACTCATGTACTTTGTGAGGATGACTCCGCTGAGGTGGACGTGTACAACCCGACGAG
GAACGAATGGGACAAGATCCCGTCCATGAATCAGGTAAATTTTCAGGCGGGCCAGCATTGGAAGCACAGGCTGGT
CCTGATTTTGCAACCAAGTGTATCGTGTAGTGTGTTGGGATCCACAGCCATGATGGATGGGTCTCATCTCAA
TTAATAGAAGGCTGCTCTTACCCTTATTTTGCACTTAAGGCTCACTGAGACACAGATGTTAAGTAATACCCTATG
ATTACACAGCTTAGTACACATTGAGCAGTGTTTATTGAGTATCTGCTGTGAGCCAGAGAGCAGAAGGAAGTGAG
GGAGCAAGGCATACAGTCATCTGGGGACACCTGTTCCAGAGAGGGACAGCAGGTACAGAGGCCCTGCAGCAGGGC
ACCCTGGCGTGTTCTTAGATACACAGCAGCCCATGTGGCCGAGCAGAGTCAGCATGAGGTCTGTGACCTACCT
TTTTTATTTTGGAGACAGGGTCTTGCTCTGTCAACCAGGCTGGAGTGAGTGGTACAATCATGGCTCACTGCAGC
CTCCACCTCCTTGACTCGCAGTCTCCACCCGACCTTCTGAATAGCTGAGACTACAGGCGTGTGCCACCACAC
CCAGTAATTTTTTCTCATATGTAGATACAAAAGGATATTCTTAAATTTTTATAGAGACAGGGTCTTGCTGTG
TTACCCAGGCTGGTCTCACACTCCTGGCCTCAAGTGACCTCCTGTCTCAGCCTCCCAAAGTGCTAGGATTATAG
GCGTGAACCACCAGCCAGCTGGTTCCTGAGGAAGTCAGTGTGGGAATACTTTTTTTTTTTTATACGGAGTCT
CGCTCTGTCAACCAGGCTGGAGTGCAGTGGCACGATCTCGGCTCACTGCAAGCTCCATCTCCAGGTTACAGCCA
TTCCTCCGCGCTCAACCTCCCGAGTAGCTGGGACTACAGGTACCCACCACCAGCCAGCTAATTTGTTGTGTA
TTTTTAGTAGAGACGGGATTTCACTGTGTAGCCAGGATGGTCTGGATCTCCTGACCTTGTGATCTGCCTGGCTC
AGCCTCCCAAAGTGCTGGGATTACAGGCATGAGCCACCATGCCCAGCCCACTGTGGGAATACTTGTGTTGAGCAC
TTGCTGTGTGTTCTGAATAGGACAACCAGGGTCCACCCTTCTCTCTGGGCTTGTGAGAAGAGGGGTGCCAGC
CTGACAGTGATGGGACAGGGAGGCTTCAGTGCCATTTGGCCATGTGAGCAGTGTTAGTCTGAGGTACACATCATA
TTGCTACAGCCTTCTTCTGTGTGTCTGTTAATTTCCAAACCTACACTCCGTGACATCCAGCCTCACAGCT
TACATCACAGCTTAATGTCTGGCATTAAAGAGACCCAGCGTCTGTTTTCCCGCAGTAAGCTGCACATAGTCA
TAGCGAATTTGGGAAAGATGGAAGGAATCATCCAGCCTCGCGGTTCCAGAGCCAGCTCTGCCACTGTGAGCCATG
CAAGCCTCAGTTTTCCCATCTGTAAATGAGGAGAACAGCACTGCTCAGCCCAGAGGGCCACTGCAGAGATTCTG
AGAGAGAACGTAGGAAGCGCTGCTCGGCACGACCTGCACAGGGGAGGCTGGCGCTGCAGCGGGCACCTCATC
ACCATAGGGAAGGCCAGCTGCCCTCCGGGAGGCGGCTCTCTTAGGCAGGGTGTGGAAAGGGGTGGCCCTCTC
TGCTGCTTTCTGGGAGAGCCAAGGCCACCCCTCTGGGGTACTGACAGGGCATGCTTGTCTCCAGTGGTTCCCA
GGTGGGGCCCTGCCCTACCCTCTCCTCTGACCTCCACTCACTCATCCCTTTGGCCACAGGTACATGTGGGGGGC
AGCCTGGCCGTCTTGGGGGAAGCTGTACGTCTCTGGGGGATACGACAATACATTTGAACCTCTCGGACGTGGTA

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FIGURE 36B

GAGGCCTATGACCCAGAGACTCGCGCGTGGAGCGTGGTGGGGCGGCTCCCAGAACCACCTTCTGGCATGGCAGT
GTCAGCATCTTCCGCCAGTTCATGCCCCAGACCTTCTCGGGTGGGCGTGGCTTCGAGTTGGACAGTGGCAGCGAT
GACATGGACCCAGGCCGACCCCGCCGCGCGGGACCCGATGAGCTGCACTAGCCCCAGTCTGGCCCCGGCACGG
GCCTCGGTGCAGGTAAC TGGCACCTCTGCGGGGCAGTGGCCCACTCCTTTGTGCACAAGGACACGTTGGGCTCAC
AGGAGGAGCACAGGCTCTTGGGTGGCGAAGCCAGCCAGGATCCATTACCTGGAAGGTTTCTGTACCTTGAGAGC
CTGAATCAGAGGCCGTCGGGAACGCCCTCCCTGCAGTTGAGGAAGAGCCACTTTCCTGCCAGCACATGTTTCTGG
GTCTTGGAGGTACCCCCACCCGCGGATCACAGCTACCCACGCGGCGCACACCCCTCCTGCCGTTGTTCATCTG
CACCTACTTGTTCACCTTGGGAGAGGACGATGACTTGGGAGGGACGCGTGAAGGGAGAAGGGTCCCTCCCATG
AGGCTGAGGATGGCCTGAACCTGGAGCAGCGGACCAGGCAGACGGGCTGAAGTGGGGTCCCAAATTCATGTCCA
GAGGTGTGGGGAGCCTGCCTCCCTAGCTCCTGGCCCCTGCCAGGGGCTTACATCAAAACACCTCAGAGGGCTGCC
CTCCAGAGGCTGCACCCAGAACAGTGGGACATGAGCAGGGGTGTGGGCTTGGAGGGTGAAGAGGATGTGGTCCCTA
TCAGATGCTGGGCCTCCTCAGCCATAGCCCCCTGCTCCTACCCCTGACTGGCTCTTGCGTCTCACCCTCTACC
CTCTCCTTCCCGGGAGGCCCTGGGAGGTGATCATTGACACCCAGCCAAGCAGACAGCTGCGGGTGCCCAAGCCCT
TGCTGGGCCTGCGCGTGAGGAGTCCCACTGCTTCTAAAGGAAGTCTGGGCAGGAGGTGGCTTTGGTGGTTGGTT
CCAAAGTTGAAAATGCTTGCAGTTTGACCTTAGAAGAAGTGGGAAGAAGAAGGAGCTCTACAGGGTCAGCTTTGT
TTGATTTGTCCAGTCTAAGAAGTCCCATTTGCCAAAGCTTTCTGCAGGAGGGTGAATGCCGCAGCTTGGCAGCCCC
TGGGTTTTCTTGGAAATGGTCAGTTTCCCTCAAAGTACCCAAAGTAGCCTTGGCTTGAGTTTTTGTCTTGGC
TCCTTTTTAGAGAAGAGGGCATTAGACTGCATTTCTCGTTAAAGAAGGTTAAAGCAAATGTTTTATTGCCTTT
TCTAGTGAACCTAAGTCTAGAGATGTTCTCAGCAGGAAGACAGTCTTAGCACTGTCACTTAGCAGATTGCACCTA
AGTCCCTTGTGCTGGCCAGATGGCGTGGCTGGTTGCCTTAATATGTCCCAGGACCCCTGACAGGGCTGCCTGGCC
TCTCCCTCGTCTCCTCAAGAGCCCAGTCCATACACTGTGGATGTCACTGTGCTGCGGGTAGGAAGTCTTGTCTCT
AGAAGCCCTGGCTGGTATGACCACAGTTTCATGGCGCTCTTCTCGCTTGGGTGATGGTCATCTTCCAGCACCTG
CTGTGCTGGGAAGGCCGAGGATGGGGGCCAGCACTGTCCAGGCTGCTGGGGCTGGCTGGGAGTCTGTGGGC
AGCATGGAACATGCAGCTGGGCTTCCCTGTGACCAGGCACCCCTTGGCACTGTTGCTTGGCCCTGTGCCCTGGACCT
TTTCTGCCCCCTTCTCCTTCTCTGCTCCCTTGGGGCTACCCCTTGGCCCCCTCCTGGTCTGTGCAAACTCCCTCAG
GGAGCCCCCTGCCCTGTAGCTCTCGCTTAACCTCCTAGGGGCTGCTGAGCCACCCAGAGGTTGTTGGAGTTCA
GCGGGGCAGCTTGTCTCCCTTGTCTAGCAGGGGCGTAAGGGCTGGGTTTGGCCATACAAGGTTGGCTACGCCCTCA
ATCCCTGACCGTTCCAGGCAGTGTGCTGGGCACCCAGGAAGGACATGCTGTCCAGACTGTGATGACTGCCAGCA
CAGGGCATCTCGGGCTTGGCTGGTCTGCGAGGCCCTTGGCCCTGTGGAACCTCTGGGTTCCCTGTTTTCTCAGTCTTT
TTTGGCGCTTTGCTGTGGTTGGCAGCTGCCGTACTCCAGGCTTGTGTGCGCCACTCAGATGAGGGCTGTGGTGCG
AGCCAGTGCAGGAGAGCTGCGCTTGGGATTGTGCCCTCTCCTGTGTCTGTCTCCGACCTACCCAGGTCTCCAC
CATCAGGACCCCTGTCTTTGGGTTTAGAAGACCAGTATGGGGAACACAGGCACCCAGCCTCTGCAGCAATGGGTC
CCTCTAGCCTGTGGACACCAGCTGGGGGATCCAGGGTCAGGCCCCCTCCTCTCCCAGTTTCCCTCTGCTGTGGG
TTCTGGGCTGTGATGTCTCCACCACTTAAGGATGTCTTTACACTGACTTCAGGATAGATGTTGGGATGCCTGGGC
ATGGCCACATGTTACATGTACAGAACTTTGTCTACAGCACAAATTAAGTTATATAAACACAGTACTGGTATTTA
ATGCTGATCTACTATAAGGTATTCTATATTTATGACTTCAGAGACGCGTATGTAATAAAGGACGCCCTCCCTC
CAGTGTCCACATCCAGTTACCCAGAGGGTCGGGCAGGTTGACATATTTATTTTGTCTATTCTGTAGGCTTCC
ATGTCCAGAACTCTGCTTAAGGTTTTAGGGTACCTTCAGTACTTTTTGCAATAAAAGTATTTCTATCCATTGG

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FIGURE 37

MERPAPLAVLPFSDPAHALSLLRGLSQLRAERKFLDVTLEAAGGRDFPAHRAVLAAASPYFRAMFAGQLRESRAE
RVRLHGVPPDMLQLLLDfsYTGRAVAVSGDNAEP LLRAADLLQFFAVKEACGAFLQQQLDLANCLDMQDFAEAFSC
SGLASAAQRFILRHVGELGAEQLERLPLARLLRYLRDDGLCVPKEEAAYQLALRWVRADPPRRAAHWPQLLEAVR
LPFVRRFYLLAHVEAEPLVARCPPCLRLLREARDFQAARYDRHGRGPCPRMRPRPSTGLAEIILVLVGGCDQDCDE
LVTVDCYNPQTGQWRYLAEPDHLGGGYSIVALGNDIYVTGGSDGSRLYDCVWRYNSSVNEWAEVAPMLKAREYH
SSSVLDGLLYVVAADSTERYDHTTDSWEALQPMTYPMDNCSSTACRGRLYAIGSLAGKETMVMQCYDPDIDLWSL
VDCGQLPPWSFAPKTATLNGLMYFVRDDSAEVDVYNPTRNEWDKIPSMNQVNFQAGQHWKHRLVLILQPKCHRDE
CLGSTAMMDGSHLN

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FIGURE 38A

CCCGCGGCCGAGCCGGCGCGGGCCCCCGCACCTCCCCCGCTCGCGCGGCCCTCGAGTCCAGAAGACCCGCTCCAC
ACACCGGGGCCCGCCGCGGAGCCTCATGGGGGTGGAGTCCCCAAGGTTTCCTTTGTGCGCAGTATTGGCGGG
GCCTTGACTACCACTCCCAACAAGGCACCGCGCCCGCTCCCGGCCACGCCCCCTCGCCGCTGGCTTCCAGTCG
CCACCCAGACTACATTTCCCGACAGGCCTCCCGGCTCTCCCGCCCTCCCTCCCGAGACACGAGCCGAAGTGGGCG
TCAGGTCGGGGAGCCGGTCGGGTTCCTCGCTCACCGCGCGCGCGCGCCCGCTGCAGCCACTCTCCCGCTCTAC
CGCCGCGGGAGCTGCATCGTCCACTCCGGTCGGCGGTGGAACCGCCAGTCCGGGGTCACAGAGCTTGAGAAGCGA
CGCGCTGAGCCCCCATCACCTCCAGCCCGGGCGACCCCTCCCGGTCCGCCCTCGCCCTGCGCAGCCGCGCCCGG
CCCCAGCCCCGGGGCGGGCCCCGCTCCAGCATCCAGCTCCTGCACTCTCGCAGCCGCGCGCGCCCCCGCCCGGA
ACATGGACTCTGACTCTTGCGCCGCGCCTTCCACCCGGAGGAATACTCCCCAGTTGCAAGAGGCGCAGGACCG
TGGAAGACTTCAACAAATTCTGCACCTTTGTCTTGGCCTATGCTGGCTACATCCCTTATCCGAAGGAGAACTCC
CTTTAAGGAGCAGCCCCAGCCCTGCTAACAGCACTGCTGGTACCATTGACAGCGACGGCTGGGACGCGGGTTTCT
CAGACATCGCGTCTCAGTGCCCTTGCCAGTCTCTGACCGCTGCTTTAGCCACCTGCAGCCTACTCTCTTGACG
GAGCCAAGCCAGTAACCTTCTGCTGGACAGAAAGAAACGGACAAGCTGAAGAAGAAGAAGAGGAAGCGCA
GGGACAGTGATGCGCCTGGGAAAGAGGGGTACAGGGGGGGCTTGCTGAAGCTGGAAGCCGCTGACCCCTACGTGG
AGACCCCAACGAGTCCCACCTTGCAAGGATATCCCCAGGCTCCAGCGACCCCTGCTCGGGCTGGGACTCCGATA
CTCCCTCGAGTGGATCTTGTCGCACTGTGTACCTGATCAGGTCAAAGAAATAAAACTGAAGGCAACCGGACTA
TCGTCCGGCAGGGAAAGCAGGTGGTGTTCGAGATGAGGACAGCACTGGCAATGATGAGGACATCATGGTGGACT
CAGATGACGATTCTGGGACCTCGTGACCTGCTTCTGCATGAAGCCATTGCGCGCCGCCCATGATCGAGTGTA
ATGAGTGCCACACCTGGATTACCTGTCTGTGCGAAATCCGGAAATCCAATGTTCCAGAAGTGTGTCTGTC
AAAAGTGCCGGGACTCCAAGTTGACATCCGCCGTCCAACCGCTCGCGGACGGGCTCCCGGAAGCTGTCTCTGG
ACTGACTGCTGCTGGCGAGGAGGCTGCGAGCGTGAATCGGAAGCGACCGCGGGCTTTTGGCCCTTCTCTTAG
TTGAGCACAGAACCTCAGCTCTGGTGCGGGCAGATCCCTGCCATTAGGTGCCTAAGCAAAAGGACAGGCTGT
CAAGGTAGAACTGTACATAGCCGGTGACCGAATGCGACCTTGCCAGCCAGAGCTGCTGCCAGAGCTGCGTTCC
CTGCAGTGGAGGTGGACTGGACACCCACGTGCAGCGGGTTTGGCTCATTGAAAATGAGGGTCCGTGGTAGCTGT
GCGTTTTGTATCATTGCTAAGAGATTCCCGCTGATTGGGCTCAGTGCCAGCTGTTATTCTGCTTCCACTGTGT
GGGGAGAGGTGTTGCGTTTTCCCAGCCTGTTAATGAACAGCCATACGTGTAAGCTTTTTCTTGAGTGTGTAGTCT
TTTACCAAAAGTGTCTGTACAGCAGCCATCCAAGTTGCCCTACTTAGTGGCTTGCCCTGCTGCTCAGCTG
CTGCTGACCGGCTGGGGGAGGCACTGGCGGGAGGCTCGGGCTCCCTGGAAGGGCGCTGGGCTGGCGGGTCAG
CTGGTGGTTCTTAGGTTTCTTCTGTTTGTAAAGGGACAATGTGGCCACTTCTCTGTGAAAGGGAGTTGGTT
GGGGGGTTGAGATGGCCCGTGTTCATAACTCAGTTTCTGTGTTTGCACGATGTAAAACCCTGTCTTTTTGCACG
ATACAGCCAAAGTATTGGCTGATTCTTGCTGAGTGCCCTCTTAGTTGGTGTGTGAGGTCTTGGTGGGCTCAGG
CCAGCTGTTTGGAGTGTGGGAATCATAGGTTCTGTCTTGTCTCTTCTTACCTCATCTGGTAGCAGCAT
AAAGGTTAGGCAATCACTGGGACCCGATGGTGTCTTCCAAAGAATAGGGTAAGGAGAGCTGGGAGGGAGCCC
TCTCCGTTGGGTGACTCTTGTGTGCCCTTAGACAGGCTGGCCTGCCGTTCCACAGGGTACAGTTAGGACTTGA
GTCTTTCTTTTCTGTTTTGAGTTGGTGAGTGAGTGATAGGGTAACATGGGCCTTCAGGATGACCCCTTGGAAC
GTGCCGAGTTCCTTAAATCTCAGCTGGGATCCTGGACCTGGGAGGCCCTGTGAGGGCCAGCTCTGGAACACCT
GGGAGTTGATGCCGAGGCTGTGGAAGAACTCTGCTCGAGGGCAGGGTGCCCTGGAACACTGGTAGTTCTGGGGC
TGGGAGGGAGAGGGGCTCCGGCTTCTCTGAAATGAACACTGCTCTTCAGCAGTTCAAGTACTTGTCTCAAAAC
ATTTTCTAATTGATTGGTAGGTTTTCTAAGCATTGTTCTTTAAGGCATGGAAAGGGAAGAATGCTCAAGCAAG
TCATGTTTGTTCAGTGGGATGGGCCCGGCTTCTACTGCTGGGGGCTTCCCTTCATGTGGCACCTTTGTGCC
AGGCCACCAGGAGACTCTTCCACCTTCTCCCACTGAGCACCAGGGGCTTGAACCGTAATTTGGCTAATCAG
AGGCATTTTTTTGTCTAGTATCTTTCACACTTGTCCAACCGTCTTATTTTTTTAAAGTTCTGTTGCTTGTAT
TAACACGAAACTAGAGAGAAATAGTTTCTGAAGCCAGTTTATTGTGAAGATCCCCAAGGGGGAGGTTCCGGTAGAG
AAAAATAGTAAGCTGGTTAGAACTGACGAGGGCAAACAGCCAGGACGCATTGGAGAGGAATTTGCCAAAGATC
TACCCTGAGATAACGCCCTGTCCAGTGTCTTACCACGTGAATAACCAGCGCTCCAAAGTGTTTTTCTGCTTTGAA
AAAAAAAATCCACAAGCTTTTAAAGGTGCATTTAAGAATCCATGTGACTTTAGAATGGAAGTGCAGGCCCTGG
CAACTGTACAGTGTGCTAGAAGGTTGATGCCTCTGGATGCATGTGATACTCATCTCCATTTGTTTCTTGTAT
TGCATTTTTGTTCTTTTAGCAGATCTGTCCCTGTGGGTGGTGTCTAAGAAGTCGGACACCTTGGTTTTGTGTTA

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FIGURE 38B

GATTGAGCTGGGCAGCTGCAATCAGCTTCTTTATATGCAAATTAGGCACGACCCATCTGTGGTTCCTGGTTGGTG
GCTAATGAAGTGAGGGGAGGGAGGGATGTCACCCCAAAGTAGGCCCTCCCATTGGCTTTGGCCAGGCCAGACAC
TTCACATCGTTTACATGGTTCTGTGTAATTTAAAGTTTATGTGTATAAAGCGAAGCTGTTTCTGTGAAACTGTA
TATTTTGTAATAAATATATTGCTACTTTGAGGTTTCATGATTCAAGGTTCAGGCGATTGCGTTCTGTGCTGAAGG
A

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FIGURE 39

MSDSCAAAFHPEEYSPSCKRRRTVEDFNKFCTFVLAYAGYIPYPKEELPLRSSPSPANSTAGTIDSDGWDAGFS
DIASSVPLPVSDRCFSLQPTLLQRAKPSNFLDRKKTDKLKKKKKRKRSDAPGKEGYRGGLLKLEAADPYVE
TPTSPTLQDIPQAPSDPCSGWSDTPSSGSCATVSPDQVKEIKTEGKRTIVRQKQVVFREDEDSTGNDEDIMVDS
DDDSWDLVTCFCMKPFAGRPMIECNECHTWIHLSCAKIRKSNVPEVFVCQKCRDSKFDIRRSNRSRTGSRKLFLLD

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FIGURE 40

GACGGCTCCGGGCCGCCAGGGGCCGCTGTGGCGCAGCCGGGCTGGCCCGCGCTGTCCCTGACGCGGATCACTGGC
CCCTCTTGAGCACGGCCTTGCCGGTTTGGCGGGGTGAAAGGTTGCGAAGATGGCGACGGCCTTGAGCGAGGAGGA
GCTGGACAATGAAGACTATTACTCGTTGCTGAACGTGCGCAGGGAGGCCTCTTCTGAAGAGCTGAAAGCTGCCTA
CCGGAGGCTCTGTATGCTCTACCATCCAGACAAGCACAGAGACCCAGAGCTCAAGTCACAGGCGGAACGACTGTT
TAACCTTGTTTACCAGGCTTATGAAGTGCTTAGTGACCCCCAAACCAGGGCCATCTATGATATATATGGGAAGAG
AGGACTGGAAATGGAAGGATGGGAGGTTGTGGAAAGGAGGAGAACCCTGCTGAAATTCGAGAGGAGTTTGAGCG
GCTGCAGAGAGAGAGAAGAGAGGAGATTGCAGCAGCGAACCAATCCCAAGGGAACGATCAGCGTTGGAGTAGA
TGCCACCGACCTTTTGTATCGCTATGATGAGGAGTATGAAGATGTGTCCGGCAGTAGCTTTCCGAGATTGAAAT
TAATAAAATGCACATATCCCAGTCCATTGAGGACCCCTTGACAGCGACAGACACAGCCATCCTCTCTGGAAGCCT
CTCAACCCAGAATGGAATGGAGGAGGTTCCATTAACTTTGCGCTCAGACGAGTAACCTTCGGCAAAGGGATGGGG
AGAGTTGGAATTTGGAGCTGGAGACCTACAGGGGCTTTGTTCGGTCTCAAGCTGTTCGTAATCTCACACCAAG
ATGCTTTGTGACAACAACTGTGCTCTGCAGTTTTCATCCCGTGGAAATCCGACCCGGCCTGACCACTGTCTTAGC
TCGGAACCTAGACAAGAACACCGTGGGCTACCTGCAGTGGCGATGGGGTATCCAGTCAGCCATGAACACTAGCAT
CGTCCGAGACACTAAAACCAGCCACTTCACGTGTGGCCCTGCAGCTGGGAATCCCTCACTCCTTTGCACTGATCAG
CTATCAGCACAAATTCCAAGATGACGATCAGACTCGTGTGAAAGGATCCCTCAAAGCAGGCTTCTTTGGGACGGT
GGTGGAGTACGGAGCTGAGAGGAAGATCTCCAGGCACAGCGTTTTTGGGTGCAGCTGTCAGCGTTGGAGTTCCACA
GGGTGTTTTCTCTCAAAGTCAAGCTCAACAGGGCCAGTCAGACATACTTCTTCCCTATTCACTTGACGGACCACT
TCTGCCACGCGCATGTTCTATGCCACCGTGGGGCTCTAGTGGTCTACTTTGCCATGCACCGTCTGATCATCAA
ACCATACCTCAGGGCTCAGAAAGAGAAGGAATTGGAGAAGCAGAGGGAAAGCGCCGCCACCGATGTGCTGCAGAA
GAAGCAAGAGGCGGAGTCCGCTGTCCGGCTGATGCAGGAATCTGTCCGAAGGATAATTGAGGCAGAAGAGTCCAG
AATGGGCCCTCATCATCGTCAATGCCTGGTACGGGAAGTTTGTCAATGACAAGAGCAGGAAGAGCGAGAAGGTGAA
GGTGATTGACGTGACTGTGCCCTGCAGTGCTGGTGAAGGACTCGAAGCTCATCTCACGGAGGCCCTCAAGGC
TGGGCTGCCTGGCTTTTATGACCCGTGTGTGGGGGAAGAGAAGAACTGAAAGTGCTCTATCAGTTCCGGGGCGT
CCTGCATCAGGTGATGGTGTGACAGTGAGGCCCTCCGGATACCAAAGCAGTCCACAGGATCGATACAGATGG
ATAAAGTCCAAAGAACCAGATTTTAAAGGCCGCAAAAATCTTTCTGAGGAGTCTACAAATTTGGAATGAA
AAAACCAGACATCAGATGTTTTATTTTATATTATTATAGAAGGTGGTACCATTATCAATTATGTGAAGGG
ACATGCAGACACCCAGCTTTTGGGGTGTGGGGGTAGGACTGAGGCAGCCCCACTGGGAACCAGACTGCAGCC
TGGCCCATGGCTGTTTTTCCAAGGATCAGTTTCTGGAGGGAAGGGCTCTGGCCCTGACTCCGCTGTGTCCCGAGC
ACACGTGTGACCGCAGCCCGCCGCCCTGTAGTCTTGGCTGGGTCTGGAGGTGTCTGTGGAGCACCTGCCCTC
ACCACAGGAGCGTGAGCCACTTCTGCAGTCCACGCTGAACATGGGAAACAACCTGAAAAGCAGGCAGGCCTCCCG
GTCAGGGAGCCTCTGCTGTGCTGGCTTCCCATGACCACCTCCTCTGTGCTGAAATATTACTGCTTGAATCTGGAGC
AGATTGCGGGTTTATAAAAGTGTCTTTTATCTGAGAACAACGGGTTTGGAAATTAGTCTGCTTTTTTCCCCACT
CCCAGAGCTGCTCAAGTCATTCCACCGGCCCTCCGGCTTGGGACAGGGTAGTGTAACCTCCGATCCAGGGCCT
AGCCCTGACACAGGTGGCTTCCCGTATCCCGGTGGGAAAACGCCCTGCCACCAGCGGGCTTGAGCTGGCCTGTGT
CCCTCCACCGCCTGCACCACCCACCTCCAGAGTGCAGTGCTGGGCAAGGGCAGCTCAAGAGGACAGGACAGGCG
CTTGGCAAGACATCAGACACACCCAACCAAGGCGTGGACCCAGGCCCGGCCGTGGTACCCAGCAGGTGGCA
CTGCAGCTCCCCGCTCCTGCAGGTCCAGCGTCTCAGAGGAACACAGGGCCTGTGCTCCGAGCCTTCCTTCAG
ACCTTCTCTCCACGTGCCCACTTGGGATGCAGAATGCAGCGGAGCTAGGACCCCTCCACGGCCTGGACCTCGGC
TGCAGTAAAGTTACGTGAGGCTGTCTCTCGGGCCTGGAAGTGCGAGCCATCAGTTGCTCTTGTGACCCCTCG
GAGCAAGCGCCGCACAGGTGGTGGCTGAGACAGCTGGCGCGGGGGGCCCAAGCTGCGCCGGCCTCAGCCACC
CACAGCTGTTGTGAAGTCAGGCCTCCCTCCCCAGCACTGGTATCTGAGTAACGGCTAAGAACCTCCTTCTCTG
GTTTTGAAAAGCAGTTCGGGTTGTCCAATTCTGTAACTTCACTCCATTTTTTAAAAGGTTTCTCTGACGGCC
CCACGGCCCGAGCCGGGTGAGCGTCTGTGTCATGAGCCTGGGCCCCGGGCTTCCCGTGCAGCTTGTCCGAGG
TGCTTCTGGGCACCCATCCTCTGCGTTTCAATTGCAGTCGACTGTACAGAAGGCACTCACCACAATAAACCTTTC
CTGAAAGC

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FIGURE 41

TGCGAGGCAGAGTGCTAGCGGGAGCGCGAGCCAGCAAGAGGCGCCTGCGCGATGTCCGGGCCCCCTGAGCCCCGGG
CGCTGAGCCAGCCGGGACGGACATGCGCGGGAGGGCGCCGCGGGGCAGCCGCCGCTCCTCCGGGGGAATGAAAGC
TACTGGTTGATTTTTAAAGTGCCTGGGCCCTCACAGTTTGGAGATGTCCAGAAATAAGGCACAATGTCAATAGCAG
GAGTTGCTGCTCAGGAGATCAGAGTCCCATTAAAACTGGATTTCTACATAATGGCCGAGCCATGGGGAATATGA
GGAAGACCTACTGGAGCAGTCGCAGTGAGTTTAAAAACAACCTTTTTAAATATTGACCCGATAACCATGGCCCTACA
GTCTGAACCTCTTCTGCTCAGGAGCGCCTAATACCACTTGGGCATGCTTCCAAATCTGCTCCGATGAATGGCCACT
GCTTTGCAGAAAATGGTCCATCTCAAAGTCCAGCTTGGCCCCCTCTTCTTATTCCCCCAAGTGAAAACCTTGGGAC
CACATGAAGAGGATCAAGTTGTATGTGGTTTTAAGAACTCACAGTGAATGGGGTTTGTGCTTCCACCCCTCCAC
TGACACCCATAAAAACTCCCCTTCCCTTTTCCCCTGTGCCCTCTTTGTGAACGGGGTTCTAGGCCTCTTCCAC
CGTTGCCAATCTCTGAAGCCCTCTCTCTGGATGACACAGACTGTGAGGTGGAATTCTTAACCTAGCTCAGATACAG
ACTTCTTTTTAGAACTCTACACTTTCTGATTTCAAATATGATGTTCTTGGCAGGCGAAGCTTCCGTGGGTGTG
GACAAATCAACTATGCATATTTTGATACCCAGCTGTTTCTGCAGCAGATCTCAGCTATGTGTCTGACCAAAATG
GAGGTGTCCCAGATCCAAATCCTCCTCCACCTCAGACCCACCGAAGATTAAAGAGGTCTCATTCCGGGACCAGCTG
GCTCCTTTAAACAAGCCAGCCATAAGGATATCCAACCTGTTGTATACACAGAGCTTCTCCTAACTCCGATGAAGACA
AACCTGAGGTTCCCCCAGAGTTCCTATACCTCCTAGACCAGTAAAGCCAGATTATAGAAGATGGTCAGCAGAAG
TTACTTCGAGCACCTATAGTGATGAAGACAGGCCTCCCAAAGTACCGCCAAGAGAACCTTTGTACCCGAGTAACT
CGCGCACACCGAGTCCCAAAAGCCTTCCGTCTTACCTCAATGGGGTTCATGCCCCGACACAGAGCTTTGCCCTG
ATCCCAAGTATGTGAGCAGCAAAGCACTGCAAAGACAGAACAGCGAAGGATCTGCCAGTAAGGTTCCTTGCATT
TGCCCATTTATTGAAAATGGGAAGAAGGTTAGTTCAACACATTATTACCTACTACCTGAACGACCACCATACCTGG
ACAAATATGAAAAATTTTTAGGGAAGCAGAAGAAACAAATGGAGGCGCCCAATCCAGCCATTACCTGCTGACT
GCGGTATATCTTCAGCCACAGAAAAGCCAGACTCAAAAACAAAAATGGATCTGGGTGGCCACGTGAAGCGTAAAC
ATTTATCCTATGTGGTTTTCTCCTTAGACCTTGGGGTTCATGGTTCAGCAGAGGTTACATAGGAGCAAATGGTTCTC
AATTTTCCAGTTTGATTGAAGTGCAGAGAAAAATCCCTTAGATTGCAAAATAAAATAGTTGAACCTCTCTGTCTTC
ATGTGGAAGGTTTAGAGCAGTTGTGAGATGCTGTATGTGAGAAACCCTGACTTTGTTAGTGTGGAAAAAAGT
CTTACAAGTCTATAATTTAAAGATGTGATGGTGGGGAGGGGAGGATGGGGAAGCTTTTTATATATGCATACATTA
CATACCTATATATAAACTTGTGGTATAACCATAGACCATAGCTGCAGGTTAACCAATTAGTTACTATCGTAGAGT
AATATATATTGAGAATAATAAACTCAAGCTGGAGAAATGAGTCCTGATAGACTGAAAATTGAGCAAATGGAAGAA
GATACAGTATTGTTTAGATCAGAATCATTAAAAAATATTTTTGTTTAGTAAGTTTGAAGATTTCTGGCTTTTAGG
CCTTTTCTATTTTGTTCATTATTTTTTGCAGGCAATCTTTTCCATGGAGGGCAGGGTATCCATTCTTTACCATG
GGTGTACCTGCTTAGGTTAAAAATCATACCAAGGCCTCATACTTCCAGGTTTCATGTTGCGTCTTGTGAGGGAG
GGAGAGCAGGTTACTTGGCAACCATATTGTCACCTGTACCTGTCACACATCTTGAAAAATAAAACGATAATAGAA
CTAGTGACTAATTTCCCTTACAGTTCTGCTTGGTCCCACCCACTGAAGTAGCTCATCGTAGTGCGGGCCGTAT
TAGAAGCAGTGGGGTACGTTAGACTCAGATGGAAAAGTATTCTAGGTGCCAGTGTAGGATGTGAGTTTACAAA
ATAATGAAGCAATTAGCTATGTGATTGAGAGTTATTGTTTGGGGATGTGTGTTGTGGTTTTGCTTTTTTTTTTTT
AGACTGTATTAATAAACATACACACAAGCTGGCCTTGTGTTGCTGGTTCCATTCAGTATTTCTGGGGATTGT
TTGCTTTTTAAGTAAACACTTCTGACCCATAGCTCAGTATGTCTGAATTCCAGAGGTCACATCAGCATCTTTCT
GCTTTGAAAACCTCTCACAGCTGTGGCTGCTTCACTTAGATGCAGTGAGACACATAGTTGGTGTTCGATTTTTAC
ATCCTTCCATGTATTTATCTTGAAGAGATAAGCACAGAAGAGAAGGTGCTCACTAACAGAGGTACATTACTGCAA
TGTTCTCTTAACAGTTAAACAAGCTGTTTACAGTTTAACTGCTGAATATTATTGAGCTATTTAAAGCTTATTA
TATTTTAGTATGAACATAAAGGTTAAACATGCTTAAGAAAAATGCACTGATTTCTGCATTATGTGTACAGT
ATTGGACAAAGGATTTTATTCATTTTGTTCATTATTTTGAATATTGTCTTTTCATTTTAAATAAAGTTATAATAC
TTAAAAA

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FIGURE 42

GAATTCGGCACGAGATAAAAAATGGCTTCCAAAAGAGCTCTGGTCATCCTGGCTAAAGGAGCAGAGGAAATGGAGA
CGGTCATCCCTGTAGATGTCATGAGGCGAGCTGGGATTAAGGTCACCGTTGCAGGCCTGGCTGGAAAAGACCCAG
TACAGTGTAGCCGTGATGTGGTCATTTGTCCTGATGCCAGCCTTGAAGATGCAAAAAAGAGGGACCATATGATG
TGGTGGTTCTACCAGGAGGTAATCTGGGCGCACAGAATTTATCTGAGTCTGCTGCTGIGAAGGAGATACTGAAGG
AGCAGGAAAACCGGAAGGGCCTGATAGCCGCCATCTGTGCAGGTCCTACTGCTCTGTTGGCTCATGAAATAGGTT
GTGGAAGTAAAGTTACAACACACCCTCTTGCTAAAGACAAAATGATGAATGGAGGTCATTACACCTACTCTGAGA
ATCGTGTGGA AAAAGACGGCCTGATTCTTACAAGCCGGGGCCTGGGACCAGCTTCGAGTTTGCGCTTGCAATTG
TTGAAGCCCTGAATGGCAAGGAGGTGGCGGCTCAAGTGAAGGCTCCACTTGTTCTTAAAGACTAGAGCAGCGAAC
TGCAGCATCACTTAGAGAAACAGGCCGTTAGGAATCCATTCTCACTGTGTTGCTCTAAACAAAACAGTGGTAG
GTTAATGTGTTTCAAGTCGCTGTCCTTACTACTTTTGCAGGAGTATGGAAGTCACAACTACACAGAGATTTCTC
AGCCTACAAATTGTGTCTATACATTTCTAAGCCTTGTTTGCAGAATAAACAGGGCATTAGCAAACATAAAAAAA
AAAAAAAAAACTCGAG

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FIGURE 43

MASKRALVILAKGAEEMETVIPVDVMRRAGIKVTVAGLAGKDPVQCSRDVVICPDASLED
AKKEGPYDVVVLPGG
NLGAQNLSESAVKEILKEQENRKGLIAAICAGPTALLAHEIGCGSKVTTHFLAKDKMMNGG
HYTYSEN RVEKDGLILTSRGPGTSFEFALAIVEALNGKEVAAQVKAPLVLKD

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FIGURE 44

CTCTAAAGCGCCGAGCTGCCAAATGTCTACAGGTCCAACCTGCTGCCACTGGCAGTAATCGAAGACTTCAGCAG
ACACAAATCAAGTAGATGAGGTGGTGGACATAATGCGAGTTAACGTGGACAAGGTTCTGGAAAGAGACCAGAAG
CTCTCTGAGTTAGACGACCGTGCAGACGCACTGCAGGCAGGCGCTTCTCAATTGAAACGAGCGCAGCCAAGTTG
AAGAGGAAATATTGGTGGGAAGAATTGCAAGATGTGGGCAATCGGGATTACTGTTCTGGTTATCTTCATCATCATC
ATCATCGTGTGGGTTGTCTCTTCATGAAGAACCAGCGGAACTCAAAACTGCTGTTCAAGAAACCTCTTCAAGACT
TTTGACTTAGAACCTGCTATATTATCAAGCTTACCTACTGTTATCTCTAAAATTTTTTTTGTGTTAATGTAAAGT
TGAATTTCTAGGAAACGTGCCTTTGTTTTTAAATATGCACTCCAAATTAGAAGGCCGGCCCCGTCCACATTTTGC
ACAGTGCCTTTACAGATTTACGTATGGGCTGATGAAGAGGCCTTCTTAAGTTCCAGAGTGCTATAATCTAGATGT
AATGTTGTCACATAATTAATTGCCATTACTCCCCCTTTAG

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FIGURE 45

MSTGPTAATGSNRRLLQQTQNQVDEVVDIMRVNVDKVLERDQKLSELDADRADALQAGASQFETSAAKLKRKYWWKN
CKMWAIGITVLVIFIIIIIVVVSS

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FIGURE 46

GCTGCGGGTCTTTCCCTCACTCGTCCTCCGCGCGTCGCCGCTCTTCGGTTCGTCTGTCCGCCGCCATGGCCCA
AGCTGACATCGCGCTGATCGGATTGGCCGTCATGGGCCAGAACTTAATTCTGAACATGAATGACCACGGCTTTGT
GGTCTGTGCTTTTAATAGGACTGTCTCCAAAGTTGATGATTTCTTGGCCAATGAGGCAAAGGGAACCAAAGTGGT
GGGTGCCCAGTCCCTGAAAGAGATGGTCTCCAAGCTGAAGAAGCCCCGGCGGATCATCTCTGGTGAAGGCTGG
GCAAGCTGTGGATGATTTTCATCGAGAAATTGGTACCATTGTTGGATACTGGTGACATCATCATTGACGGAGGAAA
TTCTGAATATAGGGACACCACAAGACGGTGCCGAGACCTCAAGGCCAAGGGAATTTTATTTGTGGGGAGCGGAGT
CAGTGGTGGAGAGGAAGGGGCCCCGGTATGGCCCATCGCTCATGCCAGGAGGGAACAAAGAAGCGTGGCCCCACAT
CAAGACCATCTTCCAAGGCATTGCTGCAAAAGTGGGAACTGGAGAACCCTGCTGTGACTGGGTGGGAGATGAGGG
AGCAGGCCACTTCGTGAAGATGGTGCAACGGGATAGAGTATGGGGACATGCAGCTGATCTGTGAGGCATACCA
CCTGATGAAAGACGTGCTGGGCATGGCGCAGGACGAGATGGCCCAGGCCTTTGAGGATTGGAATAAGACAGAGCT
AGACTCATTCTGATTGAAATCACAGCCAATATTCTCAAGTTCGAAGACACCGATGGCAAACACCTGCTGCCAAA
GATCAGGGACAGCGGGGGCAGAAGGGGCACAGGGAAGTGGACCGCCATCTCCGCCCTGGAATACGGCGTACCCGT
CACCCTCATTGGAGAAGCTGTCTTTGCTCGGTGCTTATCATCTCTGAAGGATGAGAGAATTCAAGCTAGCAAAAA
GCTGAAGGGTCCCCAGAAGTTCCAGTTTGATGGTGATAAGAAATCATTCTGGAGGACATTCCGAAGGCACTCTA
CGCTTCCAAGATCATCTCTTACGCTCAAGGCTTTATGCTGCTAAGGCAGGCAGCCACCGAGTTTGGCTGGACTCT
CAATTATGGTGGCATCGCCCTGATGTGGAGAGGGGGCTGCATCATTAGAAGTGATTCTTAGGAAAGATAAAGGA
TGCATTTGATCGAAACCCGGAACCTCAGAACCTCCTACTGGACGACTTCTTTAAGTCAGCTGTTGAAAACCTGCCA
GGACTCCTGGCGGCGGGCAGTCAGCACTGGGGTCCAGGCTGGCATTCCCATGCCCTGTTTTACCACTGCCCTCTC
CTTCTATGACGGGTACAGACATGAGATGCTTCCAGCCAGCCTCATCCAGGCTCAGCGGGATTACTTCGGGGCTCA
CACCTATGAACTCTTGCCCAAACCAGGGCAGTTTATCCACACCAACTGGACAGGCCATGGTGGCACCCTGTCATC
CTCGTCATACAATGCCTGATCATGCTGCTCCTGTCAACCCTCCACGATTCCACAGACCAGGACATTCCATGTGCCT
CATGGCACTGCCACCTGGCCCTTTGCCCTATTTTCTGTTCAGTTTTTTAAAAGTGTGTGAAGAGACTCCTGAGGA
AGACACACAGTTTATTTGTAAAGTAGCTCTGTGAGAGCCACCATGCCCTCTGCCCTTGCCCTCTGGGACTGACCA
GGAGCTGCTCATGTGCGTGAGAGTGGGAACCATCTCCTTGCGGCAGTGGCTTCCGCGTGCCCCGTGTGCTGGTGC
GGTTCCCATCACGCAGACAGGAAGGGTGTTTGCGCACTCTGATCAACTGGAACCTCTGTATCATGCGGCTGAATT
CCCTTTTTCCTTTACTCAATAAAAGCTACATCAGACTG

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FIGURE 47

MAQADIALIGLAVMGQNLILNMNDHGFVVCAFNRTVSKVDDFLANEAKGTKVVGAQSLKEMVSKLKKPERRIILLV
KAGQAVDDFIEKLVPLLDTGDIIDGGNSEYRDTTRRCRDLKAKGILFVGSGVSGGEEGARYGPSLMPGGNKEAW
PHIKTIFQGIAAKVGTEPCCDWVGDEGAGHFVKMVHNGIEYGDMQLICEAYHLMKDVLGMAQDEMAQAFEDWNK
TELDNFLIETANILKFQDTDGKHLKPKIRDSAGQKGTGKWTASALEYGVPTLIGEAVFARCLSSLKDERIQA
SKKLKGPQKFQFDGDKKSFLDIRKALYASKIISYAQGFMLLRQAATEFGWTLNYGGIALMWRGGCIIRSVFLGK
IKDAFDRNPELQNLDDFFKSAVENCQDSWRRRAVSTGVQAGIPMPCFTTALSFYDGYRHEMLPASLIQAQRDYF
GAHTYELLAKPGQFIHTNWTGHGGTVSSSSSYNA

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FIGURE 48

CGCCGCTCCGGCCTCCCGCGACTTCTCGAAGGTGGGCAGGTCCACCTTGTGGAGGATGGAGGTGACCGGGGACG
CCGGGGTACCAGAATCTGGCGAGATCCGGACTCTAAAGCCGTGTCTGCTGCGCCGCAACTACAGCCGCGAACAGC
ACGGCGTGGCCGCTCCTGCCTCGAAGACCTGAGGAGCAAGGCCTGTGACATTCTGGCCATTGATAAGTCCCTGA
CACCAGTCACCCCTTGTCTGGCAGAGGATGGCACCATAGTGGATGATGACGATTACTTTCTGTGTCTACCTTCCA
ATACTAAGTTTGTGGCATTGGCTAGTAATGAGAAATGGGCATACAACAATTCAGATGGAGGTACAGCTTGGATTT
CCCAAGAGTCCTTTGATGTAGATGAAACAGACAGCGGGGCAGGGTTGAAGTGGAAGAATGTGGCCAGGCAGCTGA
AAGAAGATCTGTCCAGCATCATCCTCCTATCAGAGGAGGACCTCCAGATGCTTGTGACGCTCCCTGCTCAGACC
TGGCTCAGGAAGTACGTGAGTGTGTGCCACCGTCCAGCGGCTGCAGCACACACTCCAACAGGTGCTTGACCAAA
GAGAGGAAGTGCGTCAGTCCAAGCAGCTCCTGCAGCTGTACCTCCAGGCTTTGGAGAAAGAGGGCAGCCTCTTGT
CAAAGCAGGAAGAGTCCAAAGCTGCCTTTGGTGAGGAGGTGGATGCAGTAGACACGGGTATCAGCAGAGAGACCT
CCTCGGACGTTGCGCTGGCGAGCCACATCCTTACTGCACTGAGGGAGAAGCAGGCTCCAGAGCTGAGCTTATCTA
GTCAGGATTTGGAGTTGGTTACCAAGGAAGACCCCAAAGCACTGGCTGTTGCCTTGAAGTGGGACATAAAGAAGA
CGGAGACTGTTTCAGGAGGCCTGTGAGCGGGAGCTCGCCCTGCGCCTGCAGCAGACGCAGAGCTTGCATTCTCTCC
GGAGCATCTCAGCAAGCAAGGCCTCACCACCTGGTGACCTGCAGAATGCTAAGCGAGCCAGACAGGATCCACAT
AGCAGCAGCGGGAAGTGTGCCAAGGAAGCTCTGTGGCGTTGTGTTATTGGTAGACACCCTCAGCCTCATCATTTG
ACTACCTATGTACTACTCTACCCCTGCCTTAGAGCACCTTCCAGAGAAGCTATTCCAGGTCTCAACATACGCCG
TTCCACCAATTTTTTTTTTTAGCCCCACCAGCTTCAGGACTTCTGCCAATTTTGAATGATATAGCTGCACCAACAA
TATCCCGCCTCCTCTAATTACATATGATGTTCTCTGTTCAAAAGTAATTGGCAGTGATTGGCCAGGCGCAGTGGC
TCACGCCGTGAATCCAGCACTGGGAGGCCGAGGGGGGCGGATCGTGAAGTCAGGAGATCGAGACCATCCTGGCT
AACATGGTGAAACCCTGTCTCTACTAAAAATACAAAAAATTAGCCAGCCATGGTGGCGGGCGCCTGTAATCCC
AGCTACTTGGGAGGCTGAGGCAGGAGAATGGCATGAACCTGGGAGGCAGAGCTTGCAAGTGAAGTGAAGTGAAGT
ACTGCACTCCAGCCTGGGCAACAGAGCGAGACTCCGTCTCAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 49

MEVTGDAGVPESGEIRTLKPCLRRNYSREQHGVAASCLEDLRSKACDILAIKSLTPVTLVLAEDGTIVDDDDY
FLCLPSNTKFVALASNEKWAYNNSDGGTAWISQESFDVDETDGAGLKWKNNVARQLKEDLSSIILLSEEDLQMLV
DAPCSDLAQELRQSCATVQRLQHTLQQVLDQREEVRQSKQLLQYLQALEKEGSLLSKQEESSKAAFGEEVDAVDT
GISRETSSDVALASHILTALREKQAPELSLSSQDLELVTKEDPKALAVLNWDIKKTETVQEACERELALRLQQT
QSLHSLRSISASKASPPGDLQNPKRARQDPT

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FIGURE 50

CGGCGGAGCTGGTCCCGTTGTGCTGCGGGCGCCGCGCGGCCTGCAGTCCCGGGCCCGCGCCCCGCGCCCGCCCC
GCCCCGCCATGGAGCCCCGGCCCCGACGGCCCCGCGCCCTCCGGCCCCGCGCCATCCGCGAGGGCTGGTTCCGCGA
GACCTGCAGCCTGTGGCCCCGGCCAGGCCCTGTGCTGCAAGGTGGAGCAGCTGCTCCACCACCGGCGCTCGCGCTA
CCAGGACATCCTCGTCTTCCGCAGTAAGACCTATGGCAACGTGCTGGTGTGGACGGTGTATCCAGTGCACGGA
GAGAGACGAGTTCTCCTACCAGGAGATGATCGCCAACCTGCCTCTCTGCAGCCACCCCAACCCGCGAAAGGTGCT
GATCATCGGGGGCGGAGATGGAGGTGTCTGCGGGAGGTGGTGAAGCACCCCTCCGTGGAGTCCGTGGTCCAGTG
TGAGATCGACGAGGATGTATCCAAGTCTCCAAGAAGTTCTGCCAGGCATGGCCATTGGCTACTCTAGCTCGAA
GGTGACCCCTACATGTGGGTGACGGTTTTTGAGTTTCATGAAACAGAATCAGGATGCCTTCGACGTGATCATCTGA
CTCCTCAGACCCCATGGGCCCCGCCGAAAGTCTCTTCAAGGAGTCCTATTACCAGCTCATGAAGACAGCCCTCAA
GGAAGATGGTGTCTCTGCTGCCAGGGCGAGTGCGAGTGGCTGCACCTGGACCTCATCAAGGAGATGCGGCAGTT
CTGCCAGTCCCTGTTCCCCGTGGTGGCCTATGCCTACTGCACCATCCCCACCTACCCACGCGCCAGATCGGCTT
CATGCTGTGCAAGAAGACCCGAGCAGCAACTTCCAGGAGCCGGTGCAGCCGCTGACACAGCAGCAGGTGGCGCA
GATGCAGCTGAAGTACTACAACCTCCGACGTGCACCGCGCCGCCTTTGTGCTGCCCCGAGTTTGCCCGCAAGGCCCT
GAATGATGTGAGCTTGAGCCCCAGGCGCCACCACTGATGCCACCCAGGACCTCGGACCTTGGAGCCTGCGGGGTGCC
TCGGCCCCCTCCAGCCCCGGGCGGACCTCCTGCTGGCTCTCGCCACCAACCAAGTGTACAAGCCCCAGAATGC
TGCCCGGCCTGCCCTGCTGGGCGGACTGTCTGTGTGTCTGTCTCTGTGGCGTTCCACCTCCAAGCCTATACCAGC
TGTGTACAGCGCCATCTCTCTGCCTTCTGTTGCCCCCG

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FIGURE 51

MEPGPDGPAASGFPAIREGWFRETCSLWPGQALSQVEQLLHHRRSRYQDILVFRSKTYGNVLVLDGVIQCTERD
EFSYQEMIANLPLCSHPNPRKVLIIGGGDGGVLREVVKHPSVESVVQCEIDEDVIQVSKKFLPGMAIGYSSSKVT
LHVGDGFEFMKQNQDAFDVITDSSDPMGPAESLFKESYYQLMKTALKEDGVLCQGECEWLHLDLIKEMRQFCQ
SLFPVVAYAYCTIPTYPGQIGFMLCSKNPSTNFQEPVQPLTQQQVAQMLKYNSDVHRAAFVLPEFARKALND
VS

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FIGURE 52

AGGCGCAGGCGCAGGCGAGGGGCTGGGTGGCGGTTGAGACAGCGCGGTACTGGGAGGCGTAGGTGAGGGTCGCG
AGGCTGCCCCGAGCTTCTGAGCGAGCGCGGTGCTTTTGGGAACGCGGGACGGGCGATCTGCGGCGCCAGGAGCTGG
GCGAGGCGCGGCGGCGCGGCTGCCGGCTGCCCTGTGAATGGGAAGTTACGCGAAGTCCACCCAGCGTTTCTGAG
GCAATCTGAAGGCAAATCCTGTTTAGACCCAGGCGAAGGTTCCCGGTGACCCGGGCTCTCACCAGCCAATTGTCC
CTTGCCGTCCTCCTGAGGGTGCCTGGAGCTTAAGCACTGTGTGCTCTTGGCCTCCACACTGGGGATGCCGCTGAC
TCCCACTGTCCAGGGCTTCCAGTGGATTCTCCGAGGCCCTGATGTAGAACTTCCCCATTGGGTGCACCAAGAGC
AGCCTCACATGGTGTGGGCTGACATCAAGAGCTGCCAGATCCAACAGGAAGATGGCCAATCTTTCCTAAGCTGCT
CACCTTACAAGAAAACGAATCGTACTGCTAAGAATTCAAATTCAGCAGTCATGGGGAGCCTTGGGAAGGAGCCCG
AATCACTGATGGAATTGGACAGTGCATGGAGATGGTTCAGCAGGACAAGGGTAAGTGCAGGGGCAAGTCCAGGTC
ATACTGAGAGACAACGAGTGGCGCTGACAGAGACAGACAAAGATAAAATCAAAAGTTTGTGCTTCATCTTCAAAA
ACTCAAATAATAACAACTTGGCCTT

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FIGURE 53

MPLTPTVQGFQWILRGPDVETSPLGAPRAASHGVG

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FIGURE 54

CTGCGCCCGCGACGGAGGCGCGCTTCAAAGCGCAGGCGCGGGGAGGGGGTGGGGGAGGAGGGAAAGCGGCGAGTA
AGATGGAAGATGAGGAGGTCGCTGAGAGCTGGGAAGAGGCGGCAGACAGCGGGGAAATCCAAATCTCCTCCCAAA
GTGCCCATTGTGATTCAGGACGATAGCCTTCCCGCGGGGCCCCCTCCACAGATCCGCATCCTCAAGAGGCCCCACC
AGCAACGGTGTGGTCAGCAGCCCCAACTCCACCAGCAGGCCCCACCTTCCAGTCAAGTCCCTAGCACAGCGAGAG
GCCGAGTACGCCGAGGCCCGGAAGCGGATCCTGGGCAGCGCCAGCCCCGAGGAGGAGCAGGAGAAACCCATCCTC
GACAGGCCAACCAGGATCTCCCAACCCGAAGACAGCAGGCAGGCCAATAATGTGATCAGACAGCCTTTGGGTCTT
GATGGGTCTCAAGGCTTCAAACAGCGCAGATAAATGCAGGCAAGAAAAGATGCCGCCGTTGCTGCCGTCACCGCC
TCCTGGGTCTGTCGCCACGGGTTCGACTGCCGTGGCAGACAGCTGGACTTGAGCAGAGGGAACGACCTGACTTAC
TTGCACTGTGATCCCCCTTGCTCCGCCCACTGTGACCTTGAACCCCATGCACTGTGACCTCCCCCTTCTCCCCC
TTCCCACTGTGATTGGCACATCGACAAGGGCTGTCCCAAGTCAATGGAAAGGGAAGGGTGGGGGTAGGGGAAG
GTGGGGGGACCCAGCAAGGACTCAGAGAGTCAGACAGTGCCACTTGCCCACTTGGGGTAAAGCCAGTGCCAGCA
ATAACAGTTTATCATGCTCATTAAATTTGGGATTTCAAACACAAATGAAAACCTCACACCCACCCACCCCAAGTG
CATGTCTCCATCACTTAAAAAGTAAAGTTCCATTTGAAAATATCCTTTCTTTTTTTTTCTTCTATTTTTGTTG
TTTATACAAATATCTGATTTGCAAGAAAAAGTGATGGGAGGGGTTTTAGTGGTTTAATGAATTTTAAATTAAGA
AAGGGTAGTTTGGTAGTCTACTTAAAAATGTTTCTGGGAAATTCACTAGAAACATTAACCAATAGGATTTTGGTG
AGCTTAGCTTCTGTATTCTTACGCGCCAGAAAAGGGGCAGGGCTCTGCAGCCGCCAGGACAGACGAGCACCC
CATGCCTATACCTCCCTCCCCGAGCTAAGTCCAGGGCATCTGGGCCTTGCCCTGGAGACTGGGCTAGCTCTGTAG
GCTCGGAGAGCCTGGGGAGGGTGCCAACCCACCTCTAGTATTTGGGAGATAGGGAAAGTGAACCGACTTCCCC
TTCCCATACCCCTCAGGGTGGTTCCCTACCAGCCAGGCTTACTACTTCTAGAAGAAAGCAGAGTGCCAGGGAGTG
AGATTGCATCCCTGGGCTTAGAAGTGACGGAGAGAAGACTTGTTTAGTATTTGCCATCAGCACAAGGAAAACCA
GGAGAGAGTCTGCCTCCAGGACTCTGAGCCTTCTGCCTCGTATGTTTCAAGGTGGATAGGTCTTCCCACTCCAG
CATGGCTTGAACCTTAGGGGTCTGCAGTGCTCCATCTCCATTGGTGGCCCCAGCTCAGTAACTATACCTGGTAC
ATTCTCTGTGTGCAATCAGTACCTTGAAGGCAGAACATTCTGAATAAAGTTGGAAAAAGAACA

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FIGURE 55

CCACCTGGCACTGCCCCACCACCCTGTAGCAGTGTGCCAGCAGGAGAGTCTGTCCCTTTGCAGAGCTGCCCCGCCCTG
AAGCCCCCGAGCCAGTGTGTCTGGACCTTTTCCCTGTTGCCCCAGAGGAGCTTCGGGCTCCTGGCAGCCGCTGG
TCCCTGGGGACCCCTGCCCCCTCTCCAAGGGTTGCTATGGCCATTATCCCCAGGAGGCTCAGATACAGAGATCACC
AGCGGGGGGATGCGGGCCAGCAGGGCTGGCAGCTGGCCACACTGTCTGGTGGCCAGCCCCAGCTCTGGAGGGA
CCCTGGAGTCCCCGACACACACAGCCACAGCGCCGGGCCAGCCACGGCTCGGAGAAGAAGTCTGCCTGGCGCAAG
ATGCGGGTGTACCAGCGTGAAGAGGTCCCCGGCTGCCCCGAGGCCACGCTGTCTTCTAGAGCCTGGCCAGGTA
GTGCAAGAGCAGGCCCTGAGCACAGAGGAGCCAGGGTGGAGTTGTCTGGGTCCACCCGAGTGAGCCTCGAAGGT
CCTGAGCGGAGGCGCTTCTCGGCATCGGAGCTGATGACCCGGCTGCACTCTTCTCTGCGCTGGGGCGGAATTCA
GCAGCCCGGGCACTCATCTCTGGGTGAGGCACCGGAGCAGCCCGGGAAGGGAAGCATCTGGAATGGAGGCTCGA
AGTGTAGAGATGAGCGGGGACCGGGTGTGCGGGCCAGCCCTGGTGACTCACGAGAGGGCGATTGGTCCGAGCCC
AGGCTAGACACACAGGAAGAGCCGCTTTGGGGTCCAGGAGCACCAACGAGCGGGCGCCAGTCTCGATTCTCCTT
AACTCCGTCCTCTATCAGGAATACAGCGACGTGGCCAGCGCCCGCGAACTGCGGGCGGCAGCAGCGCGAGGAGGAG
GGCCCGGGGGACGAGGCCGAGGGCGCAGAGGAGGGGCCGGGGCCGCGGGCCAACTCTCCCCAGCAGCTCC
TTCCGGGGCGCAGCGCTCGGCGCGAGGCTCCACCTTCTCGCTGTGGCAGGATATCCCCGACGTACGCGGCAGCGGC
GTCCTGGCCACGCTGAGCCTGCGGGACTGCAAGCTGCAGGAGGCCAAGTTTGAGCTGATCACCTCCGAGGCCCTCC
TACATCCACAGCCTGTGCGTGGCTGTGGGCCACTTCTTAGGCTCTGCCGAGCTGAGCGAGTGTCTGGGGCGCGAG
GACAAGCAGTGGCTGTTTCCAACTGCCCCGAGGTCAAGAGCACCAGCGAGAGGTTCTGCGAGGACCTGGAGCAG
CGGCTGGAGGCAGATGTGCTGCGCTTCAGCGTGTGCGACGTGGTGTGTTGGACCACTGCCCCGGCTTCCGCGAGAGTC
TACCTGCCCTATGTACCAACCAGGCCTACCAGGAGCGCACCTACCAGCGCTGCTCCTGGAGAACCCAGGTTTC
CCTGGCATCCTGGCTCGCCTGGAGGAGTCTCCTGTGTGCCAGCGTCTGCCCCCTTACCTCCTTCTTATCTGCC
TTCCAGAGGATCACCCGCTCAAGATGTTGGTGGAGAACATCCTGAAGCGGACAGCACAGGGCTCTGAAGACGAA
GACATGGCCACCAAGGCCTTCAATGCGCTCAAGGAGCTGGTGCAGGAGTGCAATGCTAGTGACAGTCCATGAAG
AGGACAGAGGAATCATCCACCTGAGCAAGAAGATCCACTTTGAGGGCAAGATTTTCCCGCTGATCTCTCAGGCC
CGCTGGCTGGTTCGGCATGGAGAGTTGGTAGAGCTGGCACCCTGCCTGCAGCACCCCTGCCAAGCTGAAGCTG
TCCAGCAAGGCAGTCTACCTCCACCTCTTCAATGACTGCTTGCTGCTCTCTCGGCGGAAGGAGCTAGGGAAGTTT
GCCGTTTTTCGTCCATGCCAAGATGGCTGAGCTGCAGGTGCGGGACCTGAGCCTGAAGCTGCAGGGCATCCCCGGC
CACGTGTTCTCTCCAGCTCCTCCACGGGCAGCACATGAAGCACCAGTTCCTGCTGCGGGCCCGGACGGAAAGT
GAGAAGCAGCGATGGATCTCAGCCTTGTGCCCCCTCCAGCCCCAGGAGGACAAGGAGGTATCAGTGAGGGGGAA
GATTGCCCCCAGGTTCAAGTGTGTTAGGACATACAAGGCACTGCACCCAGATGAGCTGACCTTGGAGAAGACTGAC
ATCCTGTCAAGTGGAGCCTGGACCACTGACGGCTGGCTGGAAGGGGTCCGCTGGCAGATGGTGAGAAGGGGTGG
GTGCCCCAGGCCTATGTGGAAGAGATCAGCAGCCTCAGCGCCCGCCTCCGAAACCTCCGGGAGAATAAGCGAGTC
ACAAGTGCCACCAGCAAACCTGGGGGAGGCTCCTGTGTGATGGGCAGCCATGGCCTAGGACCCACCTCCATGCCT
GGCTCCTGGATGGTCTGGAGGGGCTGCAAGTGTCTCCATTCCCCAAGCTGCTCCTGCTGGCACTTCGCTTCTGT
GGCCTTGGCATTGAGGGCACAGGCTGGACACAGGAATGGGGGCGCCTCCAGAGGGTCTCTCCGTCTCATGTCC
TCAGTGTCCACACTTCAAGGCCAAGGATAGTTTCTTCTCTGACATGGGGACCATAACAGGTGATCACTGATACC
TGGCAAAGACTGGGGCCCTCTCCTTTCTATGTCTCAATCCTGCCTGACTCTTGGTCTTCTGGCAGGGACCTGG
CTGGGGAACGTTCTGGTGTGATGGTGTGCTGGGACCTATATGTATATTTATATATATCTGGGGTCTTGTCTACCAC
CTCC

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FIGURE 56

MDCGPPATLQPHLTGPPGTAHHPVAVCQQESLSFAELPALKPPSPVCLDLFPVAPEELRAPGSRWSLGTAPAPIQG
LLWPLSPGGSDTEITSGGMRPSRAGSWPHCPGAQPPALEGPWSPRHOTQORRASHGSEKKSARWKMRYQREEVP
GCPEAHAVFLEPGQVQEQALSTEEPRVELSGSTRVSLEGPERRRFSASELMTRLHSSLRLGRNSAARALISGSG
TGAAREGKASGMEARSVEMSGDRVSRPAPGDSREGDWSEPRLDTQEEPPIGSRSTNERRQSRFLNSVLYQEYSD
VASARELRRQQREEEGPGDEAEGAEEGPGPPRANLSPSSSFRAQRSARGSTFSLWQDIPDVRGSGVLATLSLRDC
KLQEAKFELITSEASYIHSLSVAVGHFLGSAELSECLGAQDKQWLFSKLPEVKSTSERFLQDLEQRLEADVLRFS
VCDVVDHCPAFRRVYLPYVTNQAYQERTYQRLLENPREFGILARLEESPVCQRLPLTSFLILPFQRITRLKML
VENILKRTAQGSEDEDMATKAFNALKELVQECNASVQSMKRTEELIHLSSKIHFEKGIFPLISQARWLVRHGELV
ELAPLPAAPPKLLSSKAVYLHLFNDCLLSRRKELGKFAVHVHAKMAELQVRDLSLKLQGIPGHVFLQLLHG
QHMKHQFLLRARTSEKQRWISALCPSSPQEDKEVISEGEDCPQVQCVRITYKALHPDELTLEKTDILSVRTWTSD
GWLEGVRLADGEKGWVPQAYVEEISSLSARLRNLRENKRVTSATSKLGEAPV

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FIGURE 57A

GAAGTTGCGCGCAGGCCGGCGGGGAGCGGACACCGAGGCCGGCGTGCAGGCGTGCGGGTGTGCGGGAGCCGG
GCTCGGGGGGATCGGACCGAGAGCGAGAAGCGCGGCATGGAGCTCCAGGCAGCCCGCGCCTGCTTCGCCCTGCTG
TGGGGCTGTGCGCTGGCCGCGGCCGCGCGGCGCAGGGCAAGGAAGTGGTACTGCTGGACTTTGCTGCAGCTGGA
GGGGAGCTCGGCTGGCTCACACACCCGATATGGCAAAGGGTGGGACCTGATGCAGAACATCATGAATGACATGCCG
ATCTACATGTACTCCGTGTGCAACGTGATGTCTGGCGACCAGGACAACCTGGCTCCGCACCAACTGGGTGTACCGA
GGAGAGGCTGAGCGTATCTTCATTGAGCTCAAGTTTACTGTACGTGACTGCAACAGCTTCCCTGGTGGCGCCAGC
TCCTGCAAGGAGACTTTCAACCTCTACTATGCCGAGTCGGACCTGGACTACGGCACCAACTTCCAGAAGCGCCTG
TTCACCAAGATTGACACCATTGCGCCCGATGAGATCACCGTCAGCAGCGACTTCGAGGCACGCCACGTGAAGCTG
AACGTGGAGGAGCGCTCCGTGGGGCCGCTCACCCGCAAAGGCTTCTACCTGGCCTTCCAGGATATCGGTGCCTGT
GTGGCGCTGCTCTCCGTCCGTGTCTACTACAAGAAGTGCCCCGAGCTGCTGCAGGGCCTGGCCCACTTCCCTGAG
ACCATCGCCGGCTCTGTATGCACCTTCCCTGGCCACTGTGCCCCGCACCTGTGTGGACCATGCCGTGGTGCCACCG
GGGGTGAAGAGCCCCGTATGCACTGTGCACTGGATGGCGAGTGGCTGGTGGCCATTGGGCAGTGCCGTGTGCCAG
GCAGGCTACGAGAAGGTGGAGGATGCCCTGCCAGGCCTGCTCGCCTGGATTTTTTAAGTTTGAGGCATCTGAGAGC
CCCTGCTTGGAGTGCCCTGAGCACACGTGCCATCCCTGAGGGTGGCCACCTCCTGCGAGTGTGAGGAAGGCTTC
TTCCGGGCACCTCAGGACCCAGCGTCGATGCCCTTGACACAGACCCCCCTCCGCCCCACACTACCTCACAGCCGTG
GGCATGGGTGCCAAGGTGGAGCTGCGCTGGACGCCCCCTCAGGACAGCGGGGGCCGCGAGGACATTGTCTACAGC
GTCACCTGCGAACAGTGTGCGCCGAGTCTGGGGAATGCGGGCCGTGTGAGGCCAGTGTGCGCTACTCGGAGCCT
CCTCACGGACTGACCCGCACCACTGTGACAGTGTGAGCGACCTGGAGCCCCACATGAACCTACACCTTACCGTGGAG
GCCCCGAATGGCGTCTCAGGCCTGGTAACCAAGCCGACGCTTCCGTACTGCCAGTGTGAGCATCAACCAGACAGAG
CCCCCAAGGTGAGGCTGGAGGGCCGACGACCACTCGCTTAGCGTCTCCTGGAGCATCCCCCGCCGCGAGCAG
AGCCGAGTGTGGAAGTACGAGGTCACTTACCGCAAGAAGGGAGACTCCAACAGCTACAATGTGCGCCGCACCGAG
GGTTTCTCCGTGACCTTGGACGACCTGGCCCCAGACACCACCTACCTGGTCCAGGTGCAGGCACTGACGCGAGGAG
GGCCAGGGGGCCGCGAGCAAGGTGCACGAATTCCAGACGCTGTCCCGGAGGGATCTGGCAACTTGGCGGTGATT
GGCGCGTGGCTGTGCGGTGTGGTCTGCTTCTGGTGTGGCAGGAGTTGGCTTCTTTATCCACCGCAGGAGGAAG
AACCAGCGTGCCCGCCAGTCCCCGGAGGACGTTTACTTCTCCAAGTCAGAACAACTGAAGCCCCCTGAAGACATAC
GTGGACCCCCACACATATGAGGACCCCCAACCAGGCTGTGTTGAAGTTCACTACCGAGATCCATCCATCCTGTGTC
ACTCGGCAGAAGGTGATCGGAGCAGGAGAGTTTGGGGAGGTGTACAAGGGCATGCTGAAGACATCCTCGGGGAAG
AAGGAGGTGCCGGTGGCCATCAAGACGCTGAAAGCCGGCTACACAGAGAAGCAGCGAGTGGACTTCTCGGCGAG
GCCGGCATCATGGGCCAGTTCAGCCACCACAACATCATCCGCCCTAGAGGGCGTCATCTCCAATACAAGCCCATG
ATGATCATCACTGAGTACATGGAGAATGGGGCCCTGGACAAAGTTTCTTCGGGAGAAGGATGGCGAGTTCAGCGTG
CTGCAGCTGGTGGGCATGCTGCGGGGCATCGCAGCTGGCATGAAGTACCTGGCCAACATGAACATATGTGCACCGT
GACCTGGCTGCCCCGAACATCCTCGTCAACAGCAACCTGGTCTGCAAGGTGTCTGACTTTGGCCTGTCCCGCGTG
CTGGAGGACGACCCCGAGGCCACCTACACCAACAGTGGCGGCAAGATCCCCATCCGCTGGACCGCCCCGAGGCC
ATTTCTTACCGGAAGTTACCTCTGCCAGCGACGTGTGGAGCTTTGGCATTGTGATGTGGGAGGTGATGACCTAT
GGCGAGCGGCCCTACTGGGAGTTGTCCAACCACGAGGTGATGAAAGCCATCAATGATGGCTTCCGGCTCCCCACA
CCCATGGACTGCCCCCTCCGCCATCTACCAGCTCATGATGCAGTGTGGCAGCAGGAGCGTGCCCGCGCCCCAAG
TTCGCTGACATCGTCAGCATCCTGGACAAGCTCATTCTGTCGCCCTGACTCCCTCAAGACCCTGGCTGACTTTGAC
CCCCGCGTGTCTATCCGGCTCCCCAGCACGAGCGGCTCGGAGGGGGTGGCCTTCCGCACGGTGTCCGAGTGGCTG
GAGTCCATCAAGATGCAGCAGTATACGGAGCACTTATGGCGCGCCGCTACACTGCCATCGAGAAGGTGGTGCAG
ATGACCAACGACGACATCAAGAGGATTGGGGTGGCGCTGCCCGGCCACCAGAAGCGCATCGCCTACAGCCTGCTG
GGACTCAAGGACCAGGTGAACACTGTGGGGATCCCCATCTGAGCCTCGACAGGGCCTGGAGCCCCATCGGCCAAG
AATACTTGAAGAAACAGAGTGGCCTCCCTGCTGTGCCATGTGGGCCACTGGGGACTTTATTTATTCTAGTTCT
TTCCTCCCCCTGCAACTTCCGCTGAGGGGTCTCGGATGACACCCTGGCCTGAACTGAGGAGATGACCAGGAGTGC
TGGGTGGGCCCTCTTTCCCTGCGAGACGCACACAGCTGAGCACTTAGCAGGCACCGCCACGTCCAGCATCCCT
GGAGCAGGAGCCCCGCCACAGCCTTCGGACAGACATATGGGATATTCCCAAGCCGACCTTCCCTCCGCCCTTCTCC
CACATGAGGCCATCTCAGGAGATGGAGGGCTTGGCCAGCGCCAAGTAAACAGGGTACCTCAAGCCCCATTTCTCT
CACACTAAGAGGGCAGACTGTGAACCTTACTGGGTGAGACCCAAAGCGGTCCCTGTCCCTCTAGTGCCCTTCTTTA
GACCCCTCGGGCCCCATCCTCATCCCTGACTGGCCAAACCCTTGCTTTCCTGGGCCTTGCAAGATGCTTGGTTGT

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FIGURE 57B

GTTGAGGTTTTTAAATATATAATTTGTACTTTGTGGAGAGAATGTGTGTGTGTGGCAGGGGGCCCCGCCAGGGCT
GGGGACAGAGGGTGTCAAACATTCGTGAGCTGGGGACTCAGGGACCGGTGCTGCAGGAGTGTCTGCCCATGCCC
CAGTCGGCCCCATCTCTCATCCTTTTGGATAAGTTTCTATTCTGTCAGTGTTAAAGATTTTGTTTGTGGACAT
TTTTTTCGAATCTTAATTTATTATTTTTTTTATATTTATTGTTAGAAAATGACTTATTTCTGCTCTGGAATAAAG
TTGCAGATGATTCAAACCG

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FIGURE 58

GGTGGGCTGTAGGAATGAGGAGGAACCTTAGGGAGAAACAGCTAGTGGGGAGGTAGGGCCTGGGGGAGCCGCCCT
TGCCCCAAGAGAAGGAGCCAGAACCCCGGATCTGCATGCAAGGCCTGCTCCATGCCTCGCTCACAGCAGCCCAT
CCCACAGCCCCGCCCGGTGGGGCAGGCAACATCAAGACCCTAGGAGACGCCTATGAGTTTGCGGTGGACGTGAGA
GACTTCTCACCTGAAGACATCATGTGCACCACCTCCAACAACCACATCGAGGTGCGGGCTGAGAAGCTGGCGGCT
GACGGCACCGTCATGAACACCTTCGCTCACAAGTGCCAGCTGCCGGAGGACGTGGACCCGACGTCCGTGACCTCG
GCTCTGCGGGAGGACGGCAGCCTCACTATCCGGGCACGGCGTCACCCGCATACAGAACACGTCCAGCAGACCTTC
CGGACGGAGATCAAAATCTGAGTGCCTCTCCCTTCCCTTTCCCTGTCCCCCGCCCCACGCCTGCCAGCAAAGCC
TCGCTAACCCCATTAACAACAGCTCCAGGACATCTCAGCCCAGGTTCTAGCCCCACGCACCCACAGACCCAGGTG
GACCATCCTCCCAAACCTAGGGCCCTCCACTCTATCCAGGGCAGGCCAGGGACTCCCTGGCCTGACACATGATGCC
CAGATTTAGATTGTCCTCCGTCACTTAATCCAGAGTACAGGGGCTGGGGTCAGGGAAGGAAGATCTAAAGAAC
CCACTGTGGGTCAGGGGAATGGGACCAGCAGGACATATGGGCAAGCTCTGCAGGACAGACAGGCAGACAAACCCT
CTGATCTATGA

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FIGURE 59

GCTCGTGTTAAATCTAGAACCGTAGCCAGACATGGGACTGGAGGACGAGCAAAAGATGCTTACCGAATCCGGAGA
TCTTGAGGAGGAGGAAGAGGAAGAGGAGGAATTAGTGGATCCCCTAACACAGTGAGAGAGCAATGCGAGCAGTT
GGAGAAATGTGTAAAGGCCCGGGAGCGGCTAGAGCTCTATGATGAGCATGTATCCTCTCGATCACATACAGAAGA
GGATTGCACGGAGGAGCTCTTTGACTTCTTGCAATGCAAAGGACCATTGCGTGGCCCACAACTCTTTAACAACTT
GAAATAAATGTGTGGACTTAATTCACCCAGCCTTCATCATCTGGGCATCAGAATATTTCTTATGGTTTCGGAT
GTACCATTTGTTTCTTATTTGTGTAAGTTACATGAACCTCGTGGGTTTTGGCTTAGGCTGGTAGCTTC
TATGTAATTGCGAGTGATTCCATCTAAATAAAAGTTCTGTGATCTGC

FIGURE 60

[illegible]

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FIGURE 61

MIRTLTLLSTLVAGALSCGDPTYPPYVTRVVGGEEARPNSWPWQVSLQYSSNGKWYHTCGGSLIANSWVLTAHCI
SSSRTYRVGLGRHNLYVAESGLAVSVSKIVVHKDWNSNQISKGNDIALLLKLANPVSLTDKIQLACLPPAGTILP
NNYPCYVTGWRLQTNGAVPDVLQQGRLLVVDYATCSSSAWWGSSVKTSMICAGGDGVISSCNGDSGGPLNCQAS
DGRWQVHGIVSFGSRLGCNYYHKPSVFTRVSNYIDWINSVIANN

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FIGURE 62

CGGACGCGTGGGCCCCGCCAAGGCGAGTGCCGCGCGGGCCACCATGGCCACGGACGAGCTGGCCACCAAGCTGAG
CCGGCGGGCTGCAGATGGAGGGCGAGGGCGGGCGGCGAGACCCCGAGCAGCCCGGGCTGAACGGGGCAGCGGGGGC
GGCGGGCGGGGGCACCCGACGAGGGCGGCCGAGGCGCTGGGCAGCGCGGACTGCGAGCTGAGCGCCAAGCTGCTGCG
GCGCGCAGACCTCAACCAGGGCATCGGCGAGCCCCAGTCGCCAGCCGCGCGTCTTCAACCCCTACACCGAGTT
CAAGGAGTTCTCCAGGAAGCAGATCAAGGACATGGAGAAGATGTTCAAGCAGTATGATGCCGGGCGGGACGGCTT
CATCGACCTGATGGAGCTAAACTCATGATGGAGAACTTGGGGCCCCCTCAGACCCACCTGGGGCTGAAAAACAT
GATCAAGGAGGTGGATGAGGACTTTGACAGCAAGCTGAGCTTCCGGGAGTTTCTCCTGATCTTCCGCAAGGCGGC
GGCCGGGGAGCTTCAGGAGGACAGCGGGCTGTGCGTGCTGGCCCCGCTCTCTGAGATCGACGTCTCCAGTGAGGG
TGTCAAGGGGGCCAAGAGCTTCTTTGAGGCCAAGGTCCAGGCCATCAACGTGTCCAGCCGCTTCGAGGAGGAGAT
CAAGGCAGAGCAGGAGGAAAGGAAGAAGCAGGCGGAGGAGATGAAGCAGCGGAAAGCGGCCCTTCAAGGAGCTGCA
GTCCACCTTTAAGTAGCGGGGGCTGCAGCCGACCGCCCTGCTCCGGCCCCAGTGTGGTGGGCGAGGGTGGCGCAT
GGGAGGCCGAGCCTGAATCCTTGCCCTGTGTCTGACGGGACCCTACTATAAAACCTAAAAATATCTGTGAATGGAG
CAAGTTTCAGGGGTCTTATGGAGGTGGCCCCGGCCCCCTCCCGCTCCCTTCCACTCTGCACGAGGCCGCCACACCGG
CGCTGGCTCCCTGCCCCGGCCCCGGCCCTCCCTGGCAATCCCTGGGCTCTCTTGACCCCTAACTGCCCCCTGCCTG
CTCCGGCACTGCCCCAGGCCAGCTCCTGGCCCTAGGTCCCTCCAGCCCCATGTGCCTGCCGCTGCCCTCCAC
ACATCCCTGTCCCCCAACCCGGGAACCCCTGCCCTCCTCCAGCAGGCCGACCGCCCCCTGGGGCCCCCTGCCAG
CCCCCTTCCAGGCTGGGAGACAGCAGAAGAGATAGAATCAGGGCTGCCCCACAGAGTGGGACCCAAGGGGCTAA
TTGGAGGCACGAGGGGACCCCTCCCCAGGGCCTTTTCTCCTCTGCGTCTTCCATCTACTGAAATGGGAGAGGGG
GTGGGGAGCTTCTGTTCTGGTGAAGGGACCCGGGCAGGCCCCAGCACCCCATGTGACTTGGAGAACCCAGAT
CTCTGGGGCCAGCCAGGCAGGGTGTGGGGGACGCTGTGCCAATCTACCTCACAGGCCACCCCTGCCGGGCAT
GCCGTGGGATCATGGGCAGGGAAGGCTCTGGGGGTCGGAGACACCGCTGCTTAGCACCCCCAGCCAGAACACCT
GAGGGTCTCGGGGCTCTGGAGAGAGTGGGGCGGGAGGAAGAATTGGCACCTTCCTAGGGAAGGAGACGAGCGCTT
CGCCTTGATTCTCCGAGAAGCCTCCGAGAAGTGCTTTAAGTGTGTTTGATGCGCCAGGCGGTGGGCAGCGGGGG
CCTGTCCAGCCCTCTCCCGCCATCCTTCCCCAAGTGACGTCCACTGCCTTGTCACCAGCGACCTGCCTGTCATGC
CCACCCCTGAGGAAGCATGGGGACCCCTAACACCTGGTGCCCTGCACCAGACAGGCCGTGGTCAGGCCCAGGCC
ACCGGCCGGGTCTGCCACAGCTTCCACGTGCTTGCTGACATGCGTGTGCCTGTGTGTGGTGTCTGTTGCTGTG
TCGTGAACTGTGACCATCACTCAGTCCAAACAAGTGAGTGGCCCTCGAGGCCACAGTTATGCAACTTTCAGTGT
GTGTCATAACGACGTCACTGCTTTTTAACTCGATAACTCTTTATTTTAGTAAAATGCCAGGAGTCTTGAAGC
TACGCGGACTTGACAGAGTTTTATTTTTTGGCCTTAGAATCTGCAGAAATTAGGAGGCACCGAGCCCAGCGCAGC
AGCCTCGGACCCGGATTGCGTTTTGCCTTAGCGGATATGTTTATACAGATGAATATAAAATGTTTTTTCTTTGGG
AAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 63

MATDELATKLSRRLQMEGEGGGGETPEQPGLNGAAAAAGAPDEAAEALGSADCELSAKLLRRADLNQGIGEPQSP
SRRVFNPYTEFKEFSRKQIKDMEKMFQYDAGR DGFIDLMELKLMMEKLGAPQTHLGLKNMIKEVDEDFDSKLSF
REFLLIFRKAAGELQEDSGLCVLARLSEIDVSSEG VKGAKSFFEAKVQAINVSSRFEEEIKAEQEERKKQAEEM
KQRKA AFKELQSTFK

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FIGURE 64

GCCTCCCACCTTGGTTGCTCGTACGCGGCTAGTGGGTCTCAGTGGATGTAGGCTGGGCGCCGCGATGTTGACGG
GACACCGGCGGAGAGCGACCTCGGGGTAAAGGGGTGGGGCTGACGTCAGGAGCCAAGATGGCGGCGGTGGTCGCC
CTCTCCTTGAGGCGCCGGTTGCCGGCCACAACCCCTTGGCGGAGCCTGCCTGCAGGCCTCCCGAGGAGCCCAGACA
GCTGCAGCCACAGCTCCCCGTATCAAGAAATTTGCCATCTATCGATGGGACCCAGACAAGGCTGGAGACAAACCT
CATATGCAGACTTATGAAGTTGACCTTAATAAATGTGCCCCATGGTATTGGATGCTTTAATCAAGATTAAGAAT
GAAGTTGACTCTACTTTGACCTTCCGAAGATCATGCAGAGAAGGCATCTGTGGCTCTTGTGCAATGAACATCAAT
GGAGGCAACACTCTAGCTTGCACCCGAAGGATTGACACCAACCTCAATAAGGTCTCAAAAATCTACCCTCTTCCA
CACATGTATGTGATAAAGGATCTTGTTCCTGATTTGAGCAACTTCTATGCACAGTACAAATCCATTGAGCCTTAT
TTGAAGAAGAAGGATGAATCTCAGGAAGGCAAGCAGCAGTATCTGCAGTCCATAGAAGAGCGTGAGAACTGGAC
GGGCTCTACGAGTGCATTCTCTGTGCCTGCTGTAGCACCAGCTGCCCCAGCTACTGGTGGAACGGAGACAAATAT
CTGGGGCCTGCAGTTCCTTATGCAGGCCTATCGCTGGATGATTGACTCCAGAGATGACTTCACAGAGGAGCGCCTG
GCCAAGCTGCAGGACCCATTCTCTCTATACCGCTGCCACACCATCATGAAGTGCACAAGGACCTGTCTTAAGGGT
CTGAATCCAGGGAAAGCTATTGCAGAGATCAAGAAAATGATGGCAACCTATAAGGAGAAGAAAGCTTCAGTTTAA
CTGTTTCCATGCTAAACATGATTTATAACCAGCTCAGAGCTGAACATAATTTATATCTAATTTGAGTTCCTTTAA
AGATCTTGGTTTTCCATGAATACAGCATGTATAATAAAAATTTTAAGAAATAAATGTTATTCTACTTTATTAAACA
AAAAA

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FIGURE 65

MAAVVALSLRRRLPATTLGGAQLQASRGAQTAAATAPRIKKFAIYRWDPDKAGDKPHMQTYEVDLNKCGPMVLDA
LIKIKNEVDSTLTFRRSREGICGSCAMNINGGNTLACTRRIDTNLNKVSKEYPLPHMYVIKDLVPDLSNFYAQY
KSIEPYLKKKDESQEGKQYQLQSIEEREKLDGLYECILCACCSTSCPSYWWNGDKYLGPVLMQAYRWMIDSRDD
FTEERLAKLQDPFSLYRCHTIMNCTRTCPKGLNPGKAIAEIKMMATYKEKKASV

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FIGURE 66

AGTGTGGGGTTGGCGGCCACAGCTAAGTCCAACACCAGCATGTCGCTGCAGAGAATCGTGCGTGTGTCCCTGGA
GCATCCCACCAGCGCGGTGTGTGTGGCTGGCGTGGAGACCCTCGTGGACATTTATGGGTCAGTGCCTGAGGGCAC
AGAAATGTTTGAGGTCTATGGGACGCCTGGCGTGGACATCTACATCTCTCCCAACATGGAGAGGGGCCGGGAGCG
TGCAGACACCAGGCGGTGGCGCTTTGACGCGACTTTGGAGATCATCGTGGTCATGAACTCCCCCAGCAATGACCT
CAACGACAGCCATGTTTCAGATTTCCTACCACTCCAGCCATGAGCCTCTGCCCTGGCCTATGCGGTGCTCTACCT
CACCTGTGTTGACATCTCTCTGGATTGCGACCTGAACTGTGAGGGAAGGCAGGACAGGAACCTTTGTAGACAAGCG
GCAGTGGGTCTGGGGGCCAGTGGGTATGGCGGCATCTTGCTGGTGAAGTGTGACCGTGATGATCCGAGCTGTGA
TGTCCAGGACAATTGTGACCAGCACGTGCACCTGCAAGACCTGGAAGACATGTCGTGTCATGGTCCCTGCGGAC
GCAGGGCCCTGCAGCCCTCTTTGATGACCACAACTTGTCTCCATACCTCCAGCTATGATGCCAAACGGGCACA
GGTCTTCCACATCTGCGGTCTCTGAGGATGTGTGTGAGGCCTATAGGCATGTGCTGGGCCAAGATAAGGTGTCCTA
TGAGGTACCCCGCTTGCATGGGGATGAGGAGCGCTTCTTCGTGGAAGGCCTGTCCTTCCCTGATGCCGGCTTCAC
AGGACTCATCTCCTTCCATGTCACTCTGCTGGACGACTCCAACGAGGATTTCTCGGCATCCCTATCTTCACTGA
CACTGTGGTGTTCGAGTGGCACCCCTGGATCATGACGCCCAGCACTCTGCCACCCCTAGAGGTGTATGTGTGCCG
TGTGAGGAACAACACGTGTTTTGTGGATGCGGTGGCAGAGCTGGCCAGGAAGGCCGGCTGCAAGCTGACCATCTG
CCCACAGGCCGAGAACCGCAACGACCGCTGGATCCAGGATGAGATGGAGCTGGGCTACGTTTCAGGCGCCGCACAA
GACCCTCCCGTGGTCTTTGACTCCCCAAGGAATGGGGAAGTGCAGGATTTCCCTTACAAAAGAATCTGGGTCC
AGATTTTGGTTACGTGACTCGGGAACACGCGACAGGTCTGTGAGTGGCCTGGACTCCTTTGGGAACCTGGAGGT
CAGCCCTCCAGTGGTGGCCAATGGGAAAGAGTACCCCTGGGGAGGATCCTCATTTGGGGCAACCTGCCTGGGT
AAGTGGCCGACAGGTCAACAGGTGGTGGGACTTCTCCATGCCAGAAGGTGCAGCCCCCGTGGAGCTCTT
TGTGGACTGGTTGGCCGTGGGCCATGTGGATGAGTTTCTGAGCTTTGTCCCTGCCCCGATGGGAAGGGCTTCCG
GATGCTCCTGGCCAGCCCTGGGGCCTGCTTCAAGCTCTTCCAGGAAAAGCAGAAGTGTGGCCACGGGAGGGCCCT
CCTGTTCCAGGGGTTGTTGATGATGAGCAGGTCAAGACCATCTCCATCAACCAGGTGCTCTCCAATAAAGACCT
CATCAACTACAATAAGTTTGTGACAGCTGCATCGACTGGAACCGTGGGTGCTGAAGCGGGAGCTGGGCCTGGC
AGAGTGTGACATCATTGACATCCACAGCTCTTCAAGACCGAGAGGAAAAAGCAACGGCCTTCTTCCCTGACTT
GGTGAACATGCTGGTGTGGGGAAGCACCTGGGCATCCCCAAGCCCTTGGGGCCATCATCAATGGCTGCTGCTG
CCTGGAGGAGAAGGTGCGGTCCCTGCTGGAGCCGTGGGCCTCCACTGCACCTTCATTGATGACTTCACTCCATA
CCACATGCTGCATGGGGAGGTGCACTGTGGCACCATGTGTGCAGAAAGCCCTTCTCTTCAAGTGGTGGACAT
GGTGGCCTGAGACAGCTCCCACCCACCATCTGTCCCCCTGGGGCGGGCATTGGCCAGGTGGTGGAGACAGAGA
CAGGCCCCGTAACGATAAGCACCAAGAGACCCCAAGGCTCCAGATGGAACACTGAGGGTGACCGTCCCTCTCAGA
AGCCTTTTCCCTGGAAGTGTCCATGCCTCACCTGCAACCCATGTGGTTCTCAGACTTGAATCTTCTCGGCCCCC
AAAAAGAAGGACCTCATTCTTATAGCCTCTCCTGTGATTCAACACAACCCATGGAGATGTCCCTTCTCACTCT
GAAATCATCCATTGGGGACAAATCCACATTGGGGTCTAGAAACATCCAGTATCTCATCAGCCATCTTGTCCCTG
TGCATCCTAACAGAGGAAGGATCCATGATTCTGCTTTGGTCCAATTGCTTCTCTCTGCAGAGGAACAACCCATA
AACCAGACCACTCCACGCAGGACAGGCAGGAGAGATTCTTCTTAAGCCTCCCCATAAAAAGGGAGCTGTGGAT
CCACTTAGATCAGGGCGGAACCATCTTTCACCGGCCAAGCTCCTGCCAGATGTTGACCCTCACCCAGCGTGAG
CTGTACATAGTAGGAGCTTCTAGATGCATGTGGAAGCAATGAGAGTTGTCCCTTAGCCTTATAAACTCCCCATG
ATCTGACATGCAGAAATCCAGCCTTGTCCAGAATCCTCCTGGAATTTCTTGGAGACGAAAGTATCTGGGGGATTG
TTGGGTACTAGGGAGACTGGGTACAAGGGTGAAAAGTAGTTCCCATATAACATGGTTGACTATGGTGATCCAC
CTTGTGATGGTTAATATTAGGTGTCTGGAGAAGGTTGCTTCATTGGCCCTGGGACTTCTCTCTGCAGGAGGAGAG
AACGCTGCCTCTCCTCTGGATTGGTCTCAGGCTCTCTGTGGCCTTTGGTCAGCGTTTCCACATCCTGCTCTGCT
GCAGGAGAGGGGGCTAAGGGGCTGGATCCACCAAGGCAGCTCACAGCGGGAAGAACTCTGGGAATGAACCACTGAA
TTCAGGGGATGGGGGTGGGGGGCGGTTCTCGAGGTGTGTGCCAGCTACACGTGTGTTCTGTATGGGTCCAGCTG
CGTTTCCATCACTCGCTAATAAAATCAACAGAAACAC

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FIGURE 67

AGCCAGAGGGACGAGCTAGCCCGACGATGGCCCAGGGGACATTGATCCGTGTGACCCCAGAGCAGCCCACCCATG
CCGTGTGTGTGCTGGGCACCTTGACTCAGCTTGACATCTGCAGCTCTGCCCCTGAGGACTGCACGTCCTTCAGCA
TCAACGCCTCCCCAGGGGTGGTTCGTGGATATTGCCACGGCCCTCCAGCCAAGAAGAAATCCACAGGTTCTTCCA
CATGGCCCCCTGGACCCTGGGGTAGAGGTGACCCTGACGATGAAAGTGCCAGTGGTAGCACAGGCGACCAGAAGG
TTCAGATTTTCATACTACGGACCCAGACTCCACCAGTCAAAGCTCTACTCTACCTCACCAGGGGTGGAAATCTCCC
TGTGCGCAGACATACCCGACACGGCAAAGTGAAGCCAACCAGAGCTGTGAAAGATCAGAGGACCTGGACCTGGG
GCCCTTGTGGACAGGGTGCCATCCTGCTGGTGAAGTGTGACAGAGACAATCTCGAATCTTCTGCCATGGACTGCG
AGGATGATGAAGTGCTTGACAGCGAAGACCTGCAGGACATGTGCTGATGACCCTGAGCACGAAGACCCCCAAGG
ACTTCTTCACAAACCATACTACTGGTGTCTCCACGTGGCCAGGTCTGAGATGGACAAAGTGAGGGTGTTCAGGCCA
CACGGGGCAAAGTGTCTCCAAGTGCAGCGTAGTCTTGGGTCCCAAGTGGCCCTCTCACTACCTGATGGTCCCCG
GTGGAAGCACAACATGGACTTCTACGTGGAGGCCCTCGCTTTCCCGGACACCGACTTCCCGGGGCTCATTACCC
TCACCATCTCCCTGCTGGACACGTTCAACCTGGAGCTCCCCGAGGCTGTGGTGTTCGAAGACAGCGTGGTCTTCC
GCGTGGCGCCCTGGATCATGACCCCCAACACCCAGCCCCCGCAGGAGGTGTACGCGTGCAGTATTTTTGAAAATG
AGGACTTCTGAAGTCAGTGACTACTCTGGCCATGAAAGCCAAGTGAAGCTGACCATCTGCCCTGAGGAGGAGA
ACATGGATGACCACTGGATGCAGGATGAAATGGAGATCGGCTACATCCAAGCCCCACACAAAACGCTGCCCGTGG
TCTTCGACTCTCCAAGGAACAGAGGCCTGAAGGAGTTTCCCATCAAACGCGTGATGGGTCCAGATTTTGGCTATG
TAACTCGAGGGCCCCAAACAGGGGGTATCAGTGGACTGGACTCCTTTGGGAACCTGGAAGTGAGCCCCCAGTCA
CAGTCAGGGGCAAGGAATACCCGCTGGGCAGGATTCTCTTCGGGGACAGCTGTTATCCCAGCAATGACAGCCGGC
AGATGCACCAAGGCCCTGCAGGACTTCTCAGTGCCCAAGCAGGTGCAGGCCCCCTGTGAAGCTCTATTCTGACTGGC
TGTCCTGTTGGGCCACGTGGACGAGTTCTGAGCTTTGTGCCAGCACCCGACAGGAAGGGCTTCCGGCTGCTCTGG
CCAGCCCCAGGTCTGCTACAACTGTTCCAGGAGCAGCAGAATGAGGGCCACGGGGAGGCCCTGCTGTTTGAAG
GGATCAAGAAAAAAAACAGCAGAAAATAAAGAACATTCTGTCAAACAAGACATTGAGAGAACATAATTCAATTG
TGGAGAGATGCATCGACTGGAACCGCGAGCTGCTGAAGCGGGAGCTGGGCCTGGCCGAGAGTGACATCATTGACA
TCCCGCAGCTCTTCAAGCTCAAAGAGTTCTCTAAGGCGGAAGCTTTTTTCCCAACATGGTGAACATGCTGGTGC
TAGGGAAGCACCTGGGCATCCCCAAGCCCTTCGGGCCCCGTCATCAACGGCCGCTGCTGCTGGAGGAGAAGGTGT
GTTCCCTGCTGGAGCCACTGGGCCTCCAGTGACCTTCAACGACTTCTTCACTACCATCAGGCATGGGG
AGGTGCACTGCGGCACCAACGTGCGCAGAAAGCCCTTCTCCTTCAAGTGGTGGAACATGGTGGCCTGAGCCCATC
TTCCCTGGCGTCTCTCCCTCCTGGCCAGATGTGCTGGGTCTCTGCACTGTGGCAAGCAAGAGCTCTTGTGAA
TATTGTGGCTCCCTGGGGGCGGCCAGCCCTCCAGCAGTGGCTTGCTTTCTTCTCTCTGTGATGTCCAGTTTCCC
ACTCTGAAGATCCCAACATGGTCTAGCACTGCACACTCAGTTCTGCTCTAAGAAGCTGCAATAAAGTTTTTTTA
AGTCACTTTGTAC

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FIGURE 68A

GGAAGCTCGTATTTACATTTTAAGTGTATCTGGTGAAGTGGGCTGGAGCCCTCGTCTGGGCCGGAAAAAAAAGC
CCTCCGATCCGTCTTTTAGTTGCTTCTCTTCTTTTCTCTCCGGTTTCTCATCACTCCAACAGCCGCGACCA
TGCCACAGGAAGAAGCGCGCGCGCGCGCTGGGAGGAGCCGAGCTCGGGCAACGGCACTGCCCGCGCGGGCCCA
GGAACCGCGCGCGCGCGCGCGCGAGGAAGCGCGAGCGCGCCGAGCGCTGCAGTAGCAGCAGCGCGCGCGAGCA
GCGGCGACGAGGACGGCTGGAGCTCGACGGGGCCCCCGCGGGGGCAAGCGCGCGCGCGCGCGCGCGCGAGCAG
GCAAGCGCGCGCGCGCGCGCGCTGGTCATCACCGAACCCGAGCACACCAAGGAGCGCGTCAAACCTGAAGGGTCAA
AGTGCAAAGGGCAGCTTTTGATTTTGGGGCAACCAACTGGGACTTGATTGGTCGAAAAGAAGTGCCTAAACAGC
AAGCTGCTTACCGCAATCTCGGTGAGAATTTGTGGGGGCCCCACAGATATGGGTGCCTGGCGGGGTCCGGGTGC
GGACAGTGGTCTCGGGCTCGTGTGCTGCACACAGCCTCCTCATCACCGGAAGGGAAGCTGTGGAGCTGGGGTGC
GAAATGAGAAGGGGACGTGGGACATGGTGACACCAAGAGAGTAGAAGCCCTAGACTCATCGAGGGTCTTAGCC
ACGAAGTGATTGTGTCTGCAGCATGTGGGCGGAACACACCTTGGCCTTGACGAAACGGGCTCCGTGTTTGCCT
TTGGGGAAAAACAAGATGGGGCAGCTGGGCCTTGGCAACCAGACAGACGCTGTTCCAGCCCCGCGCAGATAATGT
ACAACGCCCAGCCAATTACCAAAATGGCCTGTGGGGCTGAATTCAGTATGATAATGGACTGCAAAGGAAACCTCT
ATTCTTTGGGTGCCCTGAATATGGTCAGCTGGGACACAACCTCAGATGGGAAGTTCATCGCCCGGCGACAGCGGA
TAGAGTACGACTGTGAAGTAGTTCCCCGGCGAGTGGCCATCTTATTGAGAAGACGAAAGATGGAGATTCTGTC
CTGTACCAAAACGTGGTTGTACGAGACGTGGCCTGTGGCGCTAACCACACGCTGGTCTGGACTCCCAAGCGAG
TCTTCTCCTGGGGCTTTGGTGGCTATGGCCGGCTGGGCCACGCGAGCAGAAGGATGAGATGGTCCCCCGCTGG
TGAAGCTGTTTGACTTCCCTGGGCGTGGGGCTTCCAGATCTATGCTGGTTACACCTGCTCCTTTGCTGTCAGTG
AAGTGGGTGGTCTGTTTTTCTGGGGGGCCACCAACACCTCCCGTGAATCTACCATGTACCCAAAAGCAGTGCAGG
ACCTCTCGCGCTGGAGAATTGCGAGCCTGGCTGTGGGAAGAGCAGCATATTGTGGCCCGGATGAGAGCACCA
TCAGCTGGGGTCCGTACCGACCTTTGGGGAACCTGGGCTACGGGGACCACAAGCCCAAGTCTTCCACTGCAGCCC
AGGAGGTAAAGACTCTGGATGGCATTCTCTCAGAGCAGGTGCCATGGGCTACTCACACTCCTTGGTGATAGCAA
GAGATGAAAGTGAGACTGAGAAAGAGAAGATCAAGAAACTGCCAGATAACAACCCCGAACCTCTGATGCTCCC
GGAGACTCCTCCGACTCCACACCTCTCGCGGCAGCTGTCTATTTCATGTGCACTGGGACGGGAAGTCAAACGAGG
AATTTAAAAAGCAAAAGTTGACCGAAGGTGCATTTTTTGTAGACTCCCTGAGGTTCCGTTTTACACATGATCC
AACGTTAACTACCTTTTTTCTGTATGCTTTCCAAAGTCTTTTTTTTCCCTTAATGTTGAATTAATACTTGC
TCATAGTTGATTTACCATTCTTACAAAAGAGGCAAAACTTTTGACCAATCTAGGTTTTTTTTTTTTTAAGTTTT
TTCTTTCTTCTTCTGAAATACACTCCCCAAAACACCCCTTTCCAGTTACAATTAGCATCGTGATCCAAGCAGA
TGCCACATGGAAGAGGAATCGCCATTTACTCAGAAAAAATGTCCCTTACAGGAACCGGCAGCAGCTAGGCAGTCA
CCGCCCCGCTCCATCCAAAATCAGCTCGCGTGTCTCGGAAGCATCCGGGTCACTCCTTCTCCGCTTTTCTTG
CAGATGGCCCTAGGCCGCTGTCGTTCTGTTTCTCCCTTGGCTGCCTGTACGCCACAGCCTTCTGGCTGCGAC
ATTATAGAATCGGCCGTGTCCCCCTGGTGGGGGATTGGGGATCTGTGTTAGCCATTTATATCTACTTTAGCTG
TTAAAGAGGTCCAAATGAAAATCAGGTGATTGTGGAACCATGGGGACTTGGGGGTGGGGCAGAGGTGGGAACATT
TGATACAGTTGAGTCAGCTTGGTGGCTCCCTGTGGAGCCAGGGCTGAGCCTTGTACGCGCACTCGCCAATTAAG
AGATGGACCAGCCAGCAGTCAAGTGCATTCTCCAGTCTTGAAGAAGGATCAGCCCTTCTGTGCCAGCCTCGA
TCGCTTGTGCTTTGGTCTCTTTTTCTCCCCCGCTGGATCCTCGCTCGCGCGGGCGCTCTGTGCTGAGAC
TCGGGGTACCGTTCTGTGACCCAGCTCCCTTTAGTCACGTTTGGCTTGGTACCAAATAGTTGGGATTAC
CGAAGAGTCCCTTCTTGGTGTGACACGGATGCTGTGACTGCCACCTGCGTCTCTGTCAGAGTCCCGAGCTC
GCCGCCGTGTGTGCTGCGCTGAGTGAGTTATGAGGTGCCTTTCCCGGAACCTCCTCTCGCTGGACCAAGAGA
GGCGACAGCTGTGGCTGGGGCTCTTGGTTTCCAGAGGGTCTGGACTGGTTGGGTGCTTTAAAATAGATATTAG
TTCAGTGGTGTATGAGGGGAGATGGGACTAGAACTTAAGTGTGAGACTTGGGTGGATGGGAAAGTTAAATATTG
GTCTCTTCAAGTTTTTTTTTCTTTTGTGTTTACCCTTGTCACTGTCTCCATGTTAAATGCCAAAATGAT
GTAGTTGTTGTTGCTTTTTTCCCTATTTTCCACCCAGTCGCTCCTTACCGTGACTCCTGCCCTTGGAGGGCATG
TAGCAGTGTCTGTCTGCCAGTCCCAAGGCCCTGTGGGAGGAGACTGGCCTGCATCTCTTAAGACTTAGTCTGA
CGCCACGCGCATCTCTTGTCTGTGTTCAATCAGTAGTCCAGGGGAGAAGCTTCTGCTACTTCAGAGCTTTGCTA
AACTAACCTAATTTGTCCAAATCACCCCAAAACCACCATCTCTGACGTAAGCTTCCATGCGACAGCCTGATCCGT
TTCCCTGGACAGGTCTCTTTCTGGAATGCAGCCAGGCACCTGTGCTCCTGGCACCTTGAGGTCTCTTCTTTG
AGCCGTGGTACCGAGAGGGTTGAGGACGCGACCCGAGGTCCAGCCTTTCAGGAGCCTCCCTGGGCTTAGC

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FIGURE 68B

TGGACTTAGATCTTCGGTGGCCTCATGTAAACGTGGCAGCCAGCCTCTTCTAGAACCCTAGCCCAGGGACTGGAG
CAGGAAAGGGACCTTCAAAGTGAAGACTGCCTTGTCGCCGAGCTCCTTCTGGCTTAGATTGAAACATGGGCTTCC
TAATGGGTAAATCCTTTAAACAAGGAGTTGTGGGGGAAGGGTGTCGTGCACTCCTAGAGAAAGGTACACAGTT
GCCCAGTTGGGAATGTGCTTGGCGCTGACCCTGCGGGCATCTGACTGGTCTTCCAGCTCAGGAAAAAGAATTGA
AAGAGGCTTAGCGTGAAGGGGAATCAAAGAGGAGGTTGTGATTGGTCGAAGGTGCCTGGTTTAGTGCTGTAATT
GTCTTATTATTTTTTTATATATATATTTCTTGGAGTAAACATTTAAAT

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FIGURE 69

ATGAGTGATCAGCAGCTGGACTGTGCCTTGGACCTAATGAGGCGCCTGCCTCCCCAGCAAATCGAGAAAAACCTC
AGCGACCTGATCGACCTGGTCCCCAGTCTATGTGAGGATCTCCTGTCTTCTGTTGACCAGCCACTGAAAATTGCC
AGAGACAAGGTGGTGGGAAAGGATTACCTTTTTGTGTGACTACAACAGAGATGGGGACTCCTATAGGTCACCATGG
AGTAACAAGTATGACCCCTCCCTTGGAGGATGGGGCCATGCCGTCAGCTCGGCTGAGAAAGCTGGAGGTGGAAGCC
AACAATGCCTTTGACCAGTATCGAGACCTGTATTTTGAAGGTGGCGTCTCATCTGTCTACCTCTGGGATCTGGAT
CATGGCTTTGCTGGAGTGATCCTCATAAAGAAGGCTGGAGATGGATCAAAGAAGATCAAAGGCTGCTGGGATTCC
ATGCACGTGGTAGAAGTGCAGGAGAAATCCAGCGGTGCGACCGCCATTACAAGTTGACCTCCACGGTGATGCTG
TGGCTGCAGACCAACAAATCTGGCTCTGGCACCATGAACCTCGGAGGCAGCCTTACCAGACAGATGGAGAAGGAT
GAAACTGTGAGTGACTGCTCCCCACACATAGCCAACATCGGGCGCCTGGTAGAGGACATGGAAAATAAAATCAGA
AGTACGCTGAACGAGATCTACTTTGGAAAAACAAAGGATATCGTCAATGGGCTGAGGTCTGTGCAGACTTTTGCA
GACAAATCAAACAGAAGCTCTGAAGAATGACCTGGTGGAGGCTTTGAAGAGAAAGCAGCAATGCTTAAACCTCT
GTTTCATGCTAACACAGACACGCCGTGCACTCGTTAGATTCTTTCTTAGAAAACTCGTTTTCTGCTCCCTTCCCT
CGTCCCTTCCCTCCCCGACAGGTCACATAACAGCTGCATCATTGACCGCACAGCGCCATCTCTCCCTGAGAATAA
AGCCGATAGCCACCTCCTCCGGCTCCGAGCCTGCTTCTGCCACACCTCGCTCTCAGTCTCTCCACATTTCCATAG
AGACCGTGTTGTTTTGTTCACCCGGG

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FIGURE 70

MSDQQLDCA₁LDLMRR₂LP₃PQ₄IEKN₅LS₆DL₇LV₈PS₉LC₁₀ED₁₁LL₁₂SS₁₃VD₁₄Q₁₅PL₁₆KI₁₇AR₁₈DK₁₉VV₂₀GK₂₁DY₂₂LL₂₃CD₂₄YN₂₅RD₂₆GD₂₇SY₂₈RS₂₉PW₃₀
SNKYD₃₁PP₃₂LED₃₃GAMP₃₄SAR₃₅LR₃₆KLE₃₇VEAN₃₈NA₃₉FD₄₀QY₄₁RD₄₂LY₄₃FEG₄₄GV₄₅SS₄₆VY₄₇LD₄₈LD₄₉HG₅₀FAG₅₁VIL₅₂IK₅₃KAG₅₄DG₅₅SK₅₆KIK₅₇GC₅₈WD₅₉S₆₀
IHV₆₁VE₆₂QEK₆₃SS₆₄GRTA₆₅HY₆₆KL₆₇TST₆₈VML₆₉WL₇₀QTN₇₁KSG₇₂SG₇₃TM₇₄NL₇₅GG₇₆SL₇₇TR₇₈QME₇₉KDET₈₀VSD₈₁CSP₈₂HI₈₃AN₈₄IG₈₅RL₈₆VED₈₇MEN₈₈KIR₈₉
STL₉₀NEI₉₁YFG₉₂TKD₉₃IVN₉₄GL₉₅RS₉₆VQ₉₇TFAD₉₈KSK₉₉QEAL₁₀₀KNDL₁₀₁VEAL₁₀₂KRK₁₀₃QQC₁₀₄

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FIGURE 71

CCGCGTCTCGCGTAGTCTCCCGCGCCGCGCTCCACTGCGCGCTTCGCTCTCCGCCGCCGAGGCCCGCGCGCTCG
CCATGTCCCGGCCACCGCCACCGCGGGTCGCCTCGGTGCTGGGCACCATGGAGATGGGGCGCCGCATGGACGCGC
CCGCCAGCGCCGCGGCCGTGCGCGCCTTTCTGGAGCGCGGCCACCCGAAGTGGACACGGCCTTCATGTACAGCG
ACGGCCAGTCCGAGACCATCCTGGGCGGCCTGGGGCTCGGGCTGGGCGGTGGCGACTGCAGAGTGAAAATTGCCA
CCAAGGCCAACCCTTGGGATGGAAAATCACTAAAGCCTGACAGTGTCCGGTCCCAGCTGGAGACGTCATTGAAGA
GGCTGCAGTGTCCCAAGTGGACCTCTTCTACCTACACACACCTGACCACGGCACCCCGGTGGAAGAGACGCTGC
ATGCCTGCCAGCGGCTGCACCAGGAGGGCAAGTTCGTGGAGCTTGGCCTCTCCAATATGCTAGCTGGGAAGTGG
CCGAGATCTGTACCTCTGCAAGAGCAATGGCTGGATCCTGCCCACTGTGTACCAGGGCATGTACAACGCCACCA
CCCGGCAGGTGGAAACGGAGCTCTTCCCTGCCTCAGGCACCTTTGGACTGAGGTTCTATGCCTACAACCCTCTGG
CTGGGGGCTGCTGACTGGCAAGTACAAGTATGAGGACAAGGACGGGAAACAGCCTGTGGGCCGCTTCTTTGGGA
ATAGCTGGGCTGAGACCTACAGGAATCGCTTCTGGAAGGAGCACCACTTCGAGGCCATTGCGTTGGTGGAGAAGG
CCCTGCAGGCCGCATATGGCGCCAGCGCCCCAGTGTGACCTCGGCTGCCCTCCGGTGGATGTACCACCACTCAC
AGCTGCAGGGTGCCACGGGGACGCGGTCATCCTGGGCATGTCCAGCCTGGAGCAGCTGGAGCAGAAGTTGGCAG
CAACAGAGGAAGGGCCCCCTGGAGCCGGCTGTCGTGGATGCCTTTAATCAAGCCTGGCATTGGTTGCTCACGAAT
GTCCCAACTACTTCCGCTAGGCCCATCATGGCTCAGGCTGCCCAAGGCTTTTCTGTACCTCTTTTGTTCCTCA
CACTGACCAGTCTTGGCCTTAAGCTGACTTAGAAGGGTTTTTCTGAATTGTCTAGATCCATGCATTATTTTCTA
GCTTCCTGCCTTGCTCCCTATTCACTTTACACTGTGAAAGGTGGGGGTGAGTCCCACTTGAGCGCTTCCTGTG
AATAAAGCAGGCACTTGACCTGGCTGTAGCCTAGGTCTTGAGTGAACCCCAAAAAA

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FIGURE 72

MSRPPPPRVASVLGTMEMGRRMDAPASAAAVRAFLERGHTELDTAFMYSDGQSETILGGLGLGLGGGDCRVKIAT
KANPWDGKSLKPDSVRSQLETSKRLQCPQVDLFYLHTPDHGTPVEETLHACQRLHQEGKFVELGLSNYASWEVA
EICTLCKSNGWILPTVYQGMYNATTRQVETELFPCLRHFGLRFYAYNPLAGGLTGKYKYEDKDQKQPVGRFFGN
SWAETYRNRFWKEHHFEAIALVEKALQAAYGASAPSVTSAALRWMYHHSQLQGAHGDAVILGMSSLEQLEQNLAA
TEEGPLEPAVVDAFNQAWHLVAHECPNYFR

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FIGURE 73

ACCGTCTTCCGCCGCACGTGGATTGAGCGCGATGCCCAAATCCAAGCGCGACAAGAAAGTCTCCTTAACCAAAAC
TGCCAAGAAAGGCTTGGAATTGAAACAAAACCTGATAGAAGAGCTTCGGAAATGTGTGGACACCTACAAGTACCT
TTTCATCTTCTCTGTGGCCAACATGAGGAACAGCAAGCTGAAGGACATCCGGAACGCCTGGAAGCACAGCCGGAT
GTTCTTTGGCAAAAACAAGGTGATGATGGTGGCCTTGGGTGCGAGCCCATCTGATGAATACAAAGACAACCTGCA
CCAGGTGAGCAAAAGGTTGAGGGGTGAGGTGGGTCTCCTGTTTACCAACCGCACAAAGGAAGAGGTGAATGAGTG
GTTACAGAAATACACAGAAATGGACTACGCCCCGAGCTGGTAACAAAGCAGCTTTCACTGTGAGCCTGGATCCAGG
GCCCCGAGCAGTTCCCCACTCCATGGAGCCACAGCTCAGGCAGCTGGGCCTGCCCACCGCCCTCAAGAGAGG
TGTGGTGACTCTGCTGTCTGACTACGAGGTGTGCAAGGAGGGCGATGTGCTGACCCAGAGCAGGCTCGCGTCCT
GAAGCTTTTTGGGTATGAGATGGCTGAATTCAGGTGACCATCAAATACATGTGGGATTACAGTCGGGAAGGTT
CCAGCAGATGGGAGACGACTTGCCAGAGAGCGCATCTGAGTCCACAGAAGAGTCAGACTCAGAAGATGATGACTG
AAAGGGACTCGGGACTGAAGGTCTCCTGGAAGCTTCTGGGTCTCACTGGACCATCAGGACTGCTGCCGCCCTCT
GGAGAGAGCAGCTTTTTATTTGTCTGTAGACAGGGAACATGATGGGCCTGACCTCCTGTAAAGAATAAACTGT
GGGCCGGGCGCGTGGCTCACGCCTGGAATCCAGCACTTTGGGAAGCCGAGGTGGGCAGATCATAAGGTCAGGA
GATTAAGACCATCCTGGCTAACACGGTGAAACCCCGTCTCTACTAAAAATAGAAAAAAACTAGTTGGGCATAG
TGGCATGTGCTGTAGTCCCAGCTACTCAGGAGGCTGAGGCAGGAGAATCACTTGAACCCGGGAGGTGGAGGTTG
CCGTGAGTTGAGATTGGACCCTGCTCTCCAGCCTGGGCAACAGAGTAAAACTCTGTCCC

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FIGURE 74

MPKSKRDKKVS LTKTAKKGLELKQNLIEELRKCVDTYKYLFI FSVANMRNSKLKDIRNAWKHSRMFFGKNKVMV
ALGRSPSDEYKDN LHQVSKRLRGEVGLLFTNRTKEEVNEWFTKYTEM DYARAGNKAFTVSLDPGP LEQFP HSME
PQLRQLGLPTALKRGVV TLLSDYEVCKEGDVLTP EQARVLKLF GYEMAEFKVTIKYMWDSQSGRFQ QMGDDL PES
ASESTEE SDEDD

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FIGURE 75

ATCGCTGGGCGACTGATTTTCGAGTTTCCGGTCAGGTTAGGCCGGGGGGGTGCGGTCTTGGTCGGAAGGAGGTGGA
GAGTCGGGGGTACACAGGCCATCCTTGGCGCCACAGTCGGCCACCGGGGCTCGCCGCCGTATGGAGAGCGGAG
GGCGGCCCTCGCTGTGCCAGTTCATCCTCCTGGGCACCACCTCTGTGGTCACCGCCGCCCTGTACTCCGTGTACC
GGCAGAAGGCCCGGGTCTCCCAAGAGCTCAAGGGAGCTAAAAAGTTTCATTTGGGTGAAGATTTAAAGAGTATTC
TTTCAGAAGCTCCAGGAAAATGCGTGCCTTATGCTGTTATAGAAGGAGCTGTGCGGTCTGTTAAAGAAACGCTTA
ACAGCCAGTTTGTGGAAAACGCAAGGGGGTAATTCAGCGGCTGACACTTCAGGAGCACAAAGATGGTGTGGAATC
GAACCACCCACCTTTGGAATGATTGCTCAAAGATCATTATCAGAGGACCAACACAGTGCCCTTTGACCTGGTG
CCCACGAGGATGGCGTGGATGTGGCTGTGCGAGTGTGAAGCCCTGGACTCAGTGGATCTGGGTCTAGAGACTG
TGTATGAGAAGTTCCACCCCTCGATTTCAGTCCTTCACCGATGTATCGGCCACTACATCAGCGGTGAGCGGCCCCA
AAGGCATCCAAGAGACCGAGGAGATGCTGAAGGTGGGGGCCACCTTCACAGGGGTGGCGAACTGGTCTGGACA
ACAACCTCTGTCGCGCTGCAGCCGCCCAAACAAGGCATGCAGTACTATCTAAGCAGCCAGGACTTCGACAGCCTGC
TGCAGAGGCGAGGATCGAGCGTCAGGCTCTGGAAGGTGCTGGCGCTGGTTTTTTGGCTTTGCCACATGTGCCACCC
TCTTCTTCATTCTCCGGAAGCAGTATCTGCAGCGGCAGGAGCGCCTGCGCCTCAAGCAGATGCAGGAGGAGTTCC
AGGAGCATGAGGCCCAGCTGCTGAGCCGAGCCAAGCCTGAGGACAGGGAGAGTCTGAAGAGCGCCTGTGTAGTGT
GTCTGAGCAGCTTCAAGTCCTGCGTCTTTCTGGAGTGTGGGCACGTTTGTTCCTGCACCGAGTGTACCGCGCCT
TGCCAGAGCCCAAGAAGTGCCCTATCTGCAGACAGGCGATCACCGGGTGATACCCCTGTACAACAGCTAATAGT
TTGGAAGCCGCACAGCTTGACCTGGAAGCACCCCTGCCCCCTTTTCAGGGATTTTTATCTCGAGGCCCTTTGGAGG
AGCAGTGGTGGGGGTAGCTGTACCTCCAGGTATGATTGAGGGAGGAATTGGGTAGAACTCTCCAGACCCATGC
CTCCAATGGCAGGATGCTGCCTTTCCACCTGAGAGGGGACCCTGTCCATGTGCAGCCTCATCAGAGCCTCAGCC
TGGGAGGATGCCGTGGCGTCTCCTCCAGGAGCCAGATCAGTGCAGTGTGACTGAAAATGCCTCATCACTTAAG
CACCAAAGCCAGTGATCAGCAGCTCTTCTGTTCTGTGTCTTCTGTTTTTTCTGGTGAATCGTTGCTTGCTGTG
GACTTGGTGGAGGACTCAGAGGGGAGGAAAGGCTGGGCCCCGAGTACAACGGATGCCCTGGGTGCTGCCTCCGAA
GAGACTCTGCCGAGCTTTTCTTCTTTTCTCATGCCCCGGGAAACAGTCTTCTTCAGAATTGTCAGGCTGGG
CAGGTCAACTTGTTCTTTTCCCTCACCTGCTTGCTCCTTAACGCCTGCACGTGTGTGTAGAGGACAAAAGA
AAGTGAAGTCAGCACATCCGCTTCTGCCCAGATGGTCGGGGCCCCGGGCAACAGATTGAAGAGAGATCATGTGAA
GGGCAGTTGGTCAGGCAGGCCTCCTGGTTTCGCCACTGGCCCTGATTGAACTCCTGCCACTTGGGAGAGCTCGG
GGTGGTCCCTGGTTTTCCCTCCGAGAATGAGGCGCAGAGGCCTCGCCTCCTGAAGGACGCAGTGTGGATGCCA
CTGGCCTAGTGTCTGGCCTCACAGCTTCTTGCAAGGCTGTACAAGGAAAAGCAGCCGGCTGGCACCTGAGC
ATATGCCCTCTTGGGGCTCCCTCATCCAGCCCGTCGCAGCTTTGACATCTTGGTGTACTCATGTCGCTTCTCCTT
GTGTTACCCCTCCAGTATTACCATTTGCCCTCACCTGCCCTTGGTGAGCCTTTTAGTGCAAGACAGATGGGG
CTGTTTTCCCCACCTCTGAGTAGTTGGAGGTACATACAGCTCTTTTTTATTGCCCTTTTCTGCCTCTGAA
TGTTTCATCTCTCGTCTCCTTTGTGCAGGCGAGGAAGGGGTGCCCTCAGGGGCCGACACTAGTATGATGCAGTGT
CCAGTGTGAACAGCAGAAATTAAACATGTTGCAACC

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FIGURE 76A

GC GG CAG AG CT CG GC GG CT GGG ACT GG AGG AC AG CG GT GG CG GAG CG GACT AG CG GC GG CG GG GAG CG GC GG CAG
AG GCG GT GC GG GAG CG CG GG CG CC AGG ACC GG CG GA AC GC AG AG GT TGA TT CTT CAC CACT GAA ACC ATT AG GA
AAA ATC TT TGT GGT TAA CAG CAG AG GCT TCA GAG TGA AC CT GT ACT C GGG CCT AG AAA TT AT TTT AAA AT TGG CGA
CT GAT AC GT CT CA AG GT GA ACT CG TCC AT CCT AAG CACT CCC ACT TAT AG TAG GAG CT CAG CT GAT CCA CG CG G
ACA AG TT AG GT GAGA AG GTAGA AG ATAG CAC CAT GCC GAT TCG TCGA ACT GT GA ATT CT ACC CGG GAA ACT CCT C
CC AAA GCA AG CT TGT GCT GA AG GGG AG GA AAG AAA GCC AGA ACC CAG ACATA AG TT CAG AG GA AT CT GT CT CCA CT G
TAGA AGA ACA AGA GA AT GAA ACT CCA CT GCT ACT TCG AG T GAG G CAG AG CCA AG GGG GAA CCT GAGA AT G
AAG AGA AG GA AAG AAA ATA AG TCT TCT GAG GA ACC AAA AGG AT GAGA AG AT CAG TCT AAA GAAA AGG AGA AGA
AAG TGA AAAAA ACA AT TCT TCT GGG CT ACC CT TCT GCC AG CC AG CTAG CC AG GGG CCAG AAA CAA ACAC CGA
TGG CT TCT TCCC CAG TCC CAAG AT GG AT GCA AT CTTA ACT GAG GCC ATTA AG GC AT GCT TCC AGA AG AG TGG TG
CAT CAG TGG TTG CT AT TCG AAA ATAC AT CAT CCA TAAG TAT CCT TCT C TGG AG CT GGA GAGA AG GGG GTT AT CT CC
TTAA ACA AG CACT GAAA AGA AAT TAA ATAG AG GAG TCA TCA AAC AG GTTAA AGG AAA AG GTG CT TCT GGA AG TT
TT GT TGT GGT TCA GAA TCA AG AAA AC ACT CAG AA TCC AG AAA CAG AA GA ATAG GAG CT CT G CAG TGG ATC
CAGA ACC ACA AG TAA AT TGG AGG AT GT CCT CCC ACT GGG CTTT ACT CG CCT TTT GT GA ACCT AA AGA AG CT TCT
AC AG TCT CAT CAG GAA AT AT GT GT CTA G TATT AT CTTA AG CT TAG AG TGG AC AT CAG GC CT CAG CT GT TGA AGA
AC GCT CT G CAG AG AG CAG TAG AG AG GGG CC AG TTAGA AC AG ATA ACT GG CAA AG GTG CT TCG GGG GAC ATT CCA GC
TGA AGA AT CAG GGG GAG AA ACC CT GCT TGG TGG AAG CCT GAT GGA AT AT GCA AT CTT GT CT GCC ATT GT GCCA
TGA AT GAG CG GAG AC CT GCT CT ACC ACT GCT CT GAGA AG AT AT GT CCTAG AGA AT CACC CAG GA ACCA AT TCTA
ACT AT CAA AT GCA TT TGT G TGA AAAAA ACC CT G CAG AA TGC GAAA AGA AT GGG TGG AT GGA AC AG AT CT CT GGG A
AAG GGT TCA GT GGC AC CT TCC AG CT CT GT TTTT CCT AT TAT CCA GCC CAG GAG TTCT GT TTTCC GA AGA AG AGC
CAG AT GATT CTAG AG AT GAG GAT GA AG AT GA AG AT GAG TCA TCA GA AGA AG ACT CT GAG GAT GA AG AG CC GC AC
CTA AG AGA AG GT TCA GA AGA AAA CCC CAG CCA AG TCCC CAG GGA AG GCG CAT CT GT GA AG CAG AG AG GT CCA
AAC CT GCA CT TAA AG TCT CAG CT GCC CAG CG GGG GAA AG CTAG GGC CT TGCCTA AGA AG CAC CT CTA AG GCCA
AA AC GC CT GCCA AGA AG ACC CAG ACC CT CAT CCA GCT CAT CAA GAA ACCTAG TGG TGG CT CCT CAA AGA AG CCT G
CA ACC AG TGA AGA AG GA AG TAA AT TGG CG GG CAA AG GCA AT CCA CC AT GA AGA AG CT TTT CAG AG TGA AAA
AG TAA AT TTT ATAG GAAAAA AG GT AT CAT GAT GAA AT TCA AA AT CTT AT TTT TCTA AG GT CAG TGT GCA TTT GTT
TAG TTTT GAT GCT TTT CAA AT TAC AT TAT TTTT CCT CCCC AT GA AC ATT GT GGG GAG GACT CTA AATAA ACC AG
TT TAG GC AT TTG CTAG CT TTT AG GT GCT TTT AT TGG TG CCT G C C TTTT CCT TGT TCA TTTT AT TTT CT GCA ATA
TCT TGG ACT TTT CTA AACT AT G TAA TGT AT ACT TGT CCT TTTT CT CT G C C TCCCCA ACC C C C TGT GT TTTT AT
GG TCA GCT TTT GC CT TTTT TTTT CTT CCA AT TTT AT CTA AC AG TTG CAG AG AT TTTT AT AT TTTG TAG AA AG CAT
CA AGA AC GGT AT GCC AG TCA GGT CCT GGA AG TAA AT GGA GGC ACA AT ATAG CACT GACT GAG TTGTAA AG CCTC
CT GC CT GGA GACT TCA GT TATAG CT G TAA TA AT TAT CTT AT TTTA TAA AG CCA CT CCA CT AAC CT TTT CT CT CC
AA CT GTAA ACAC AG AG CAG CT TTT GGG AATA AG CCA AAAA CAG GTG AT CT CATTAG AT TTTG AG AT ATAT GAC
TC TTT TGG GCTAC AT TTT CAT AT TGA TCA AT TTT CTAG GT AT TTTT CACT GGG CCA AG TATTGC AT TCC CT TAA CA
GCA AG CACA AG TTCT CTAT AT CACT GT TTTT TGT GT TGT GT TGT GT TGT CG TCG TTG TTTG AG AC GG AG TCTT
GCT CAG GT GCC CG GAG TGA GT GGT GCA AT CT CAG CT CACT GCA AC CT CCA CT C C TGG GTTCA AG CA AT TCTC
CT GCT TCA GC CT CCG AG TAG CT GGG ATTAC AG GT GT TACC ACC AG C C TGG CA AT TTTT TGT AT TTTT TAG TA
GAG AT GGG GTT TCG CCG TGT TGG TCA GGT GGT CT CGA ACT C C TGA C C TCA GTT GAT CCG C C TGC C TCG C C TCC
CAA AG TGT GGG ATTAC AG GAG TGA GCC ACT GT GC CT GGG C TAT CCA CT TGG TTTT GACT GA AG GGG AAG TGT
AG AAA ATAT AT TGA TTGT GAT TTT CT GGT GTC AC CT GT GT TAC CAAAAA TCA AAA CAA AT CTTT TTT AT TTTT AT
TAT TAT TAT TAT TTTT GAG AC AG AG TCT CG CT CT GT C G C C CAG TGT GAG TGC AG TGG TGT GAT CT TGG CT CACT
GCA AACT CCG C C C CAG GTTCA AG CG AT TCT CCA C C C CAG C C C TGA GT TGG GT C C TAC AG GCG CAC AG C
CAC G C C CAG CTA AT TTTT TGT AT TTTT TAG TAG AG TTGG GGT TCA CCA TGT TAG C CAG GAT GGT C C GAT C C C T
GAC CT C G TGA T CCA CT CAC CT CAG C C C CAAA AT C C TGG GGT TAC AG AT GT GAG CT ACC ACT CAG G C C CAA AT
CT TCT TGA TCA TAT GT TTTA AT AT AT TTTT AAT AT TTTG GAG CAT GAG TTGT CACT TCT GT TTTG C C TTTT TAT
AAG GAA AT GT TGG AG AG TAC AT CATT GCTA AT GTAG AA TGT TAA GT GGA AAAA ATATAC AG TTGG TAAA ATAA
ACTAG AT TCTAC AT TTTAT TTTG TGG TTTT TTTT C C C C C C TTT C TTT C CAG CACT TTTG ATATCA AG CAA GTG
CTT C C TTTT GAG ATAT TAAAAA AAG AAA AGG AAAA AGTAA ATGA AG C C CAA CTAC CTA ACC CTTT CTTA

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FIGURE 76B

TTTGTATTGTTTTAGTATTGTGAAGTTGTGTTAAATAGTACTAGCTAGAAATACAAATTTCTGGTTATCATTTC
TCTTCCCTGTGGCACTTGACATTTTAATTGTCTTAAAGTTTTTGAAGTACATCTTCTGGCCCCTTGAGTACTGCC
AGAGGCAAAAGATGTTTGTTCCTTATTCATTCCACTTTTGTCTCCTGGGATCCCTTCTGTAGCCTAAAGTATGGC
TGGGAAATGGACTTGAGAAGATTGGCTTGAATTAGATCATAATCATGTGTGATCCCATCATGAATTCATTGGAAT
TTGTGTTGCATGTAAGGCAATCTTCCTGTTGTAAATCTTCCTTTTAAATGTACATATATTTGAAAAATATGA
ATAAACATGAAATTTT

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FIGURE 77

GGCGCCGAGTAGCCGGGCGGGCCGGAGCGCGGGCGGGCGGAGGCAGCTGCGCCCGCGCCTCCTGCCCTCCCA
GGCCCCGCGCCCCGCGCCCCGGGCCCCGGCGATGGTGACACATGCGGCGGCGGCGGCCAGCGGCAGGACCATGGT
TGAGCGCGCCAGCAAGTTCGTGCTGGTGGTGGCGGGCCCCGGTGTGCTTCATGCTCATCTTGTACCACTACGCGGG
CCCAGGACTGAGCCTGGGCGCGCCCCGGCGGGCGCGCCGCCGACGACCTGGACCTGTTCCCCACGCCCCGACCC
CCACTACGAGAAGAAGCACTACTTCCCGGTCCGCGAGCTGGAGCGCTCGCTGCGCTTCGACATGAAGGGCGACGA
CGTGATCGTCTTCCGTGCACATCCAGAAGACGGGCGGCACCACCTTCGGCCGCCACCTCGTGCAACGTACGCCT
CGAGGTGCCGTGCGACTGCCGGCCCCGGCCAGAAGAAGTGACCTGCTACCGGCCCAACCGCCGCGAGACTTGGCT
CTTCTCCCGCTTCTCCACCGGCTGGAGCTGCGGGCTGCACGCCGACTGGACCGAGCTCACCAACTGCGTGCCCGG
CGTGCTGGACCGCCGCGACTCCGCCGCGCTGCGCACGCCCAGGAAGTTCTACTACATCACCTGCTACGAGACCC
CGTGTCGCCGCTACCTGAGCGAGTGCGGGCATGTGCAGAGGGGTGCCACGTGGAAGACGTGCTTGCACATGTGTGA
TGGGCGCACGCCCACGCTGAGGGGCTGCCGCCCTGCTACGAGGGCACGGACTGGTCGGGCTGCACGCTACAGGA
GTTATGGAAGTGCCTTACAACTGGCCAAACCGCCAGGTGCGCATGCTGGCCGACCTGAGCCTGGTGGGCTG
CTAACCTGTCTTATCCCCGAGGGCAAGCGGGCCAGCTGCTGCTCGAGAGCGCCAAGAAGAACTGCGGGG
CATGGCCTTCTTCGGCCTGACCGAGTTCCAGCGCAAGACGCACTACCTGTTTCGAGCGGACGTTCAACCTCAAGTT
CATCCGGCCCTTCATGCAGTACAACAGCACGCGGGCGGGCGCGTGGAGGTGGATGAGGACACCATCCGGCGCAT
CGAGGAGCTCAACGACCTGGACATGCAGCTGTATGACTACGCCAAGGACCTCTTCCAGCAGCACTACCAGTACAA
GCGGCAGCTGGAGCGCAGGGAGCAGCGCCTGAGGAGCCGCGAGGAGCGTCTGCTGCACCGGGCCAAAGGAGGCGCT
GCCGCGGGAGGACGCCGACGAGCCGGGCGCGTGGCCACCGAGGACTACATGAGCCACATCATTGAGAAGTGGTA
GTGGCGGTGGTGGCCACGGGGAGGCCTCTTGGGGTGTGTGGGGGATAAAACAGGACAGACGACAGGTCCACCCAA
GACTGTCAAGGGATGAGCATCCCAAACCTGCTCCACAGAGGTAGCTGCGTCTTGAACAAAAACACAGCAGGGACA
TAGTGGGGCTGGGCAGGGATGGGGCTTGAGAAATCAACAGGTGCAGCCAGTGGGTCAGAGGAAAGCGTGCTCGA
AGGATGCCATGGTCAGGGCAGAGCCTCCAGAGCAGGTGTTGTGCCTGGAGCTGCTCTCTTGGCCTCCTTGGATTT
ATCGCAAAACTGAAGGTTTGGCTGAGAGACGAGGACAGCGAAAGTGGACCTGCCAGGCCGGGAGTGTGTCCCT
CACCAACTATGCACACAGCACTCGCTCTTAGCTCCTCTGTCCGGGCTACTAGGAGTGAGACCAGCTTCTGGCAAC
TGCCCCAGCTCCAGGCCATCCCATAGCTCCTCCTCTTCTGGCTGCCCCCAATGCCCCGAGGCCTGGGGAGCCCCC
AGCTCACCCATCTGTAGCTCCCTCAAAGTCAGGGCCCCACCCATCTGAGGCAGAGAAGACTCGAGTCCAGCCCCC
AGGAAGCCTGCTCCCCCTCTTGGCCCATGGTCCTGCTTCATGCTTTGGGTGAGGAGGCCAAAGCTGATGTTTCAGG
CCCCACCACTCCCTACAGTCCCTCAGACC

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FIGURE 78

AGAAACTCCCGGTGTGGCAGCTGAGATGGCCCAGGAAAGAACTATATTACCTTCAAAAAGAGAGGTACATGCGAT
GTTTGAGGTGGCATGAAGCTCAGTGGTGTTATATTGGAATGAGTGAGTGACCATCCTGGAGCCTTCCTGAAAAGAG
GATTGGAACATCAGTTAACATCTGACCACTGCCAGCCACCCCTCCCACCCACGTCGATTGCATCTCTGGGCTC
CAGGGATAAAGCAGGTCTTGGGGTGCACCATGATTTCACCATTCTTAGTACTGGCCATTGGCACCTGCCTTACTA
ACTCCTTAGTGCCAGAGAAAGAGAAAGACCCCAAGTACTGGCGAGACCAAGCGCAAGAGACACTGAAATATGCCC
TGGAGCTTCAGAAGCTCAACACCAACGTGGCTAAGAAATGTCATCATGTTTCTGGGAGATGGGATGGGTGTCTCCA
CAGTGACGGCTGCCCCGATCCTCAAGGGTCAGCTCCACCACAACCTGGGGAGGAGACCAGGCTGGAGATGGACA
AGTTCCCTTCGTGGCCCTCTCCAAGACGTACAACACCAATGCCCAGGTCCCTGACAGTGCCGGCACCGCCACCG
CCTACCTGTGTGGGGTGAAGGCCAATGAGGGCACCGTGGGGGTAAGCGCAGCCACTGAGCGTTCCCGGTGCAACA
CCACCCAGGGGAACGAGGTACCTCCATCCTGCGCTGGGCCAAGGACGCTGGGAAATCTGTGGGCATTGTGACCA
CCACGAGAGTGAACCATGCCACCCCAAGCGCCCTACGCCCCTCGGCTGACCGGGACTGGTACTCAGACAACG
AGATGCCCCCTGAGGCCTTGAGCCAGGGCTGTAAGGACATCGCCTACCAGCTCATGCATAACATCAGGGACATTG
ACGTGATCATGGGGGGTGGCCGGAAATACATGTACCCCAAGAATAAAACTGATGTGGAGTATGAGAGTGACGAGA
AAGCCAGGGGCACGAGGCTGGACGGCCTGGACCTCGTTGACACCTGGAAGAGCTTCAAACCGAGATACAAGCACT
CCCACTTCATCTGGAACCGCACGGAACCTCTGACCCTTGACCCCAACAATGTGGACTACCTATTGGGTCTCTTCG
AGCCAGGGGACATGCAGTACGAGCTGAACAGGAACAACGTGACGGACCCGTCACCTCTCCGAGATGGTGGTGGTGG
CCATCCAGATCCTGCGGAAGAACCCCAAGGCTTCTTCTTGTGCTGGTGAAGGAGGAGGAGGAGGAGGAGGAGGAGG
ATGAAGGAAAAGCCAAGCAGGCCCTGCATGAGGCGGTGGAGATGGACCGGGCCATCGGGCAGGCAGGCAGCTTGA
CCTCTCGGAAGACACTCTGACCGTGGTCACTGCGGACCATTCCACGTCTTCACATTTGGTGGATACACCCCCC
GTGGCACTCTATCTTTGGTCTGGCCCCCATGCTGAGTGACACAGACAAGAAGCCCTTCACTGCCATCCTGTATG
GCAATGGGCCTGGCTACAAGGTGGTGGGCGGTGAACGAGAGAATGTCTCCATGGTGGACTATGCTCACAACAAC
ACCAGGCGCAGTCTGCTGTGCCCCCTGCGCCACGAGACCCACGCGGGGAGGACGTGGCCGTCTTCTCCAAGGGCC
CCATGGCGCACCTGCTGCACGGCGTCCACGAGCAGAACTACGTCCCCACGTGATGGCGTATGCAGCCTGCATCG
GGGCCAACCTCGGCCACTGTGCTCCTGCCAGCTCGGCAGGCAGCCTTGCTGCAGGCCCCCTGCTGCTCGCGCTGG
CCCTCTACCCCCCTGAGCGTCTGTCTTGAGGGCCAGGGCCCGGGCACCCACAAGCCCGTGACAGATGCCAACTT
CCCACACGGCAGCCCCCCCCCTCAAGGGGCAGGGAGGTGGGGGCTCCTCAGCCTCTGCAACTGCAAGAAAGGGGA
CCCAAGAAACCAAAGTCTGCCGCCACCTCGCTCCCTCTGGAATCTTCCCAAGGGCCAAACCCACTTCTGGCC
TCCAGCCTTTGCTCCCTCCCCGCTGCCCTTTGGCCAACAGGGTAGATTTCTCTTGGGCAGGCAGAGAGTACAGAC
TGCAGACATTCTCAAAGCCTCTTATTTTTCTAGCGAACGTATTTCTCCAGACCCAGAGGCCCTGAAGCCTCCGTG
GAACATTTCTGGATCTGACCCTCCAGTCTCATCTCCTGACCTCCCACTCCCATCTCCTTACCTCTGGAACCCCC
CAGGCCCTACAATGCTCATGTCCCTGTCCCCAGGCCAGCCCTCCTTACGGGAGTTGAGGTCTTTCTCCTCAGG
ACAAGGCCTTGCTCACTCACTCAAGACCACAGGGTCCAGGAAGCCGGTGCCTGGGTGGCCATCCTACC
CAGCGTGGCCCAGGCCGGGAAGAGCCACCTGGCAGGGCTCACACTCCTGGGCTCTGAACACACAGCCAGCTCCT
CTCTGAAGCGACTCTCCTGTTTGAACGGCAAAAAAAATTTTTTTTCTTTTTTGGTGGTGGTAAAAGGGAA
CACAAAACATTTAAATAAACTTTCCAAATATTTCCGAGG

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FIGURE 79

GAACCGCCATCTTCCAGTAATTCGCCAAAATGACGAACACAAAGGGAAAGAGGAGAGGCACCCAATAGATGTTCT
CCAGGCCTTTTAGAAAACATGGAGTTGTTTCCTTTGGCCACGTATATGCGAATCTATAAGAAAGGTGATATTGTAG
ACATCAAGGGAATGGGTACTGTTCAAAAAGGAACGCCCCACAAGTGTTACCATGGCAAAACTGGAAGAGTCTACA
ATGTTATCCAGTATGCTGCTAGCATTGTTGTAAACAAACAAGTTAAGGGCAAGATTCTTGCCAAGAGAATTAATG
TGCGTATTGAGCACATTAAGCACTCTGAGAGCCGAGATAGCTTCCTGAAACGCGTGAAGGAGAATGATCAGAAAA
AGAGAGAAGCCAAAGAGAAAGGTACCTGGGTTCAACTAAAGCGCCAGCCTGCTCCACCCAGCAAAGCACACTTTG
TGAGAACCAATGGGAAGGAGCCTGAGCTGCTGGAACCTATTCTCTATGAATTCACGGCATAATAGGTATTTAAAA
AAAAAAAAAGACCTCTGGGCTGT

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FIGURE 80

DRTQREERGEAPNRMFSRPFRRKHGVVPLATYMRIYKKGDIVDIKGMGTVQKGTPHKCYHGKTGRVYNVIQYAASIV
VKNQVKGKILAKRINVRIEHIKHSERDSFLKRVKENDQKKREAKEKGTWVQLKRQPAPPSKAHFVRTNGKEPEL
LEPILYEFTA

FIGURE 81

[illegible]

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FIGURE 82

MQTIKCVVVG DGAVGKTCLLSYTTNKF PSEYVPTVFDNYAVTVMIGGE PYTLGLFD TAGQEDYDRLRPLSYPQT
DVFLVCF SVVSPSSFENVKEKWVPEITHHCPKTPFLLVGTQIDLRDDPSTIEKLAKNKQKPITPETA EKLARDLK
AVKYVECSALTQKGLKNVFDEAILAALEPPPEPKSRRCVLL

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FIGURE 83

CGCGCGCGCCATTTCTAGTCGTTTTCAAAGCGCCTCGCGCTGATTCTCACGGGCCCGGCTGCCGGCCCCGCTCT
GCCCTGCATAATAAAATGGCTAATCAGGTGAATGGTAATGCGGTACAGTTAAAAGAAGAGGAAGAACCAATGGAT
ACTTCCAGTGTAACCTCACACAGAACACTACAAGACACTGATAGAGGCAGGCCTCCACAGAAGGTGGCAGAAAGA
CTTGATGAAATATTTTCAGACAGGATTGGTAGCTTATGTCGATCTTGATGAAAGAGCAATTGATGCTCTCAGGGAA
TTTAATGAAGAAGGAGCTCTGTCTGTACTACAGCAGTTCAAGGAAAGTGAATTATCACATGTTTCAGAACAAAAGT
GCATTTTATGTGGAGTTATGAAGACCTACAGGCAGAGAGAGAAAACAGGGGAGCAAGGTGCAAGAGTCCACAAAG
GGACCTGATGAAGCGAAGATCAAGGCCTTGCTTGAGAGAACTGGTTATACTCTGGATGTAACCACAGGACAGAGG
AAGTATGGTGGTCTCTCCACCAGACAGTGTGTACTCTGGCGTGCAACCTGGAATTGGAACGGAGGTATTTGTAGGC
AAAATACCAAGGGATTTATATGAGGATGAGTTGGTGCCCTTTTGGAGAAGGCCGGACCCATTTGGGATCTACGT
CTTATGATGGATCCACTGTCCGGTCAGAATAGAGGGTATGCATTTATCACCTTCTGTGGAAGGAAGCTGCACAG
GAAGCCGTGAAACTGTGTGACAGCTATGAAATTCGCCCTGGTAAACACCTTGAGTGTGCATTTCTGTGGCAAAC
AACAGACTTTTTGTTGGATCCATTCCGAAGAATAAGACTAAAGAAAACATTTTGGAGAATTTCAGTAAAGTCACA
GAGGGTTTGGTGGACGTTATTCCTATCATCAACCCGATGACAAAAAGAAGAATCGGGGGTTCTGCTTCCCTTGAA
TATGAGGATCACAAGTCAGCAGCACAAGCCAGACGCCGGCTGATGAGTGGAAAAGTAAAAGTGTGGGGAAATGTA
GTTACAGTTGAATGGGCTGACCCTGTGGAAGAACAGATCCAGAAGTCATGGCTAAGGTAAAAGTTTTGTTTGTG
AGAACTTGGCTACTACGGTGACAGAAGAAATATTGGAAGTCAATTTCTGAATTTGGAAGTTCGAAAGAGTA
AAGAAGTTGAAAGATTATGCATTTGTTTCAATTTGAAGACAGAGGAGCAGCTGTTAAGGCTATGGATGAAATGAAT
GGCAAAGAAATAGAAGGGGAAGAAATTGAAATAGTCTTAGCCAAGCCACCAGACAAGAAAAGGAAAGAGCGCCAA
GCTGCTAGACAGGCCTCCAGAAGCACTGCGTATGAAGATTATTACTACCACCCTCCTCCTCGCATGCCACCTCCA
ATTAGAGGTCGGGGTCGTGGTGGGGGAGAGGTGGATATGGCTACCCTCCAGATTACTACGGCTATGAAGATTAC
TATGATGATTACTATGGTTATGATTATCACGACTATCGTGGAGGCTATGAAGATCCCTACTACGGCTATGATGAT
GGCTATGCGAGTAAGAGGAAGAGGAGGAGGAAGGGGAGGGCGAGGTGCTCCACCACCACCAAGGGGGAGGGGAGCA
CCACCTCCAAGAGGTAGAGCTGGCTATTACAGAGGGGGGCACCTTTGGGACCACCAAGAGGCTCTAGGGGTGGC
AGAGGGGGTCTGCTCAACAGCAGAGAGGCCGTGGTTCCCGTGGATCTCGGGGCAATCGTGGGGGCAATGTAGGA
GGCAAGAGAAAGGCAGATGGGTACAACCAGCCTGATTCCAAGCGTCGTCAGACCAACAACCAACAGAAGTGGGT
TCCCAACCCATCGCTCAGCAGCCGCTTCAGCAAGGTGGTGACTATTCTGGTAACTATGGTTACAATAATGACAAC
CAGGAATTTTATCAGGATACTTATGGGCAACAGTGAAGTAGACAAGTAAGGGCTTGAAAATGATACTGGCAAGA
TACGATTGGCTCTAGATCTACATTCTTCAAAAAAAAAAATTGGCTTAAGTGTTCATCTTTAAGTAGCATTTTGC
TGCCATTTGTATTGGGCTGAAGAAATCACTATTGTGTATATACTCAAGTCTTTTTATTTTCTCTTTTCATAAA
TGCTCTTGGACATTATTGGGCTTGAGAGTTCCCTATTCTGGGGATTACAATGCTTTTATCGTTTCAGGCTTCA
TTTTAGCTTCAAAACAAGCTGGGCACACTGTTAAATCATGATTTTGCAGAACCTTTGGTTTTGGACAGTTTCATT
TTTTTGGATTGGGATAGATTACATAGGAGTATGGAGTATGCTGTAAATAAAAATACAAGCTAGTGCTTTGTCTT
AGTAGTTTTAAGAAATTAAAGCAAACAAATTTAAGTTTCTTGATTGAAAATAACCTATGATTGTATGTTTGC
ATTCCTAGAAGTAGGTTAACTGTGTTTTTAAATTGTTATAACTCACACCTTTTTGAAATCTGCCCTACAAAATT
TGTTTGGCTTAAACGTCAAAGCCGTGACAATTTGTTCTTTGATGTGATTGTATTTCCAATTTCTTGTTTCATGTA
AGATTTCAATAAAACTAAAAAATCTATTCAAAACATTA

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FIGURE 84

MANQVNGNAVQLKEEEPMDTSSVTHTEHYKTLIEAGLPQKVAERLDEIFQTGLVAYVDLDERAIDALREFNEEG
ALSVLQQFKESDLSHVQNKSAFLCGVMKTYRQREKQGSKVQESTKGPDEAKIKALLERTGYTLDVTTGQRKYGGP
PPDSVYSGVQPGIGTEVFVGKIPRDLYEDELVPLFEKAGPIWDLRLMMDPLSGQNRGYAFITFCGKEAAQEAVKL
CDSYEIRPGKHLGVCISVANNRLFVGSIPKNKTENILEEFSKVTEGLVDVILYHQDDKKKNRGFCFLEYEDHK
SAAQARRRLMSGKVKVWGNVVTVEWADPVEEPDPEVMAKVKVLFRNLATTVTEEILEKSFSEFGKLERVKKLKD
YAFVHFEDRGA AVKAMDEMNGKEIEGEEIEIVLAKPPDKKRKERQAAQASRSTAYEDYYYHPPPRMPPPIRGRG
RGGGRGGYGYPPDYGYEDYYDDYYGYDYHDYRGGYEDPYGYDDGYAVRGRGGGRGGRGAPPPPRGRGAPPPRG
RAGYSQRGAPLGPPRGRGRGGGPAQQQRGRGSRGSRGNRGGNVGGKRKADGYNQPD SKRRQTNNQONWGSQPIA
QQPLQQGGDYSGNYGYNNDNQEFYQDTYGQQWK

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FIGURE 85

CGGACTGGCAGGGGGCAGGGAAGCTCAAAGATCTGGGGTGCTGCCAGGAAAAAGCAAATTCTGGAAGTTAATGGT
TTTGAGTGATTTTTAAATCCTTGCTGGCGGAGAGGCCCGCCTCTCCCCGGTATCAGCGCTTCCTCATTCTTTGAA
TCCGCGGCTCCGCGGTCTTCGGCGTCAGACCAGCCGGAGGAAGCCTGTTTGCAATTTAAGCGGGCTGTGAACGCC
CAGGGCCGGCGGGGGCAGGGCCGAGGCGGGCCATTTTGAATAAAGAGGCGTGCCTTCCAGGCAGGCTCTATAAGT
GACCGCCGCGCGAGCGTGC CGCGTTCAGGTCAGTGTAGCGGGACTTCTTTTGTTTTCTTTCTTTTGGGGC
ACCTCTGGACTCACTCCCCAGCATGAAGGCGCTGAGCCCGGTGCGCGGCTGCTACGAGGCGGTGTGCTGCCTGTC
GGAACGCAGTCTGGCCATCGCCCGGGGCCGAGGGAAGGGCCCGGCAGCTGAGGAGCCGCTGAGCTTGCTGGACGA
CATGAACCACTGCTACTCCCGCCTGCGGGAAGTGGTACCCGGAGTCCCGAGAGGCACCTCAGCTTAGCCAGGTGGA
AATCCTACAGCGCGTCATCGACTACATTCTCGACCTGCAGGTAGTCCTGGCCGAGCCAGCCCCTGGACCCCCTGA
TGGCCCCCACCTTCCCATCCAGACAGCCGAGCTCACTCCGGAAGTGTGATCTCCAACGACAAAAGGAGCTTTTG
CCACTGACTCGGCCGTGTCCTGACACCTCCAGGTGAGTATCTCCTCTCTTGAGAGGGAGGTTTAAACGGCAAGT
CCTGGAGTTGGCAGACGTTTTGAAAAATTGCCACTCACTCGGTTTAGGGAACTGAGGCCAGAGAGGGACAAGTG
ACTTGCCCATGGTTG

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FIGURE 86

MKALSPVRGCYEAVCCLSLERSLAIARGRGKGPAAEEPLSLDDMNHCSRLRELVPGVPRGTQLSQVEILQRVID
YILDQLQVLAEPAPGPPDGPHLPIQTAELTPELVISNDKRSFCH

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FIGURE 87

TTCTCTTCTGCTCTCCATCATGCGCGCAGGATCAAGGTGAAAAGGAGAACCCCATGCGGGAACCTTCGCATCCGCA
AACTCTGTCTCAACATCTGTGTTGGGGAGAGTGGAGACAGACTGACGCGAGCAGCCAAGGTGTTGGAGCAGCTCA
CAGGGCAGACCCCTGTGTTTTCCAAAGCTAGATACTGTCAGATCCTTTGGCATCCGGAGAAATGAAAAGATTG
CTGTCCACTGCACAGTTCGAGGGGCCAAGGCAGAAGAAATCTTGGAGAAGGGTCTAAAGGTGCGGGAGTATGAGT
TAAGAAAAACAACCTTCTCAGATACTGGAACTTTGGTTTTGGGATCCAGGAACACATCGATCTGGGTATCAAAT
ATGACCCAAGCATTGGTATCTACGGCCTGGACTTCTATGTGGTGCTGGGTAGGCCAGGTTTCAGCATCGCAGACA
AGAAGCGCAGGACAGGCTGCATTGGGGCCAAACACAGAATCAGCAAAGAGGAGGCCATGCGCTGGTTCCAGCAGA
AGTATGATGGGATCATCCTTCTGGCAAAATATAATTCCCGTTTCTATCCAAAAGAGCAATAAAAAGTTTTCAGTGA
AATGTGCAA

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FIGURE 88

MAQDQGEKENPMRELRIKLCNICVGESGDRLTRAAKVLEQLTGQTPVFSKARYTVRSFGIRRNEKIAVHCTVR
GAKAEEILEKGLKVREYELRKNNFSDTGNFGFGIQEHIDLGIKYDPSIGIYGLDFYVVLGRPGFSIADKKRRTGC
IGAKHRISKEEAMRWFQKYDGIILPGK

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FIGURE 89

GGAAGTTCCGGCGGGGGCGGCCGAGGGGGAAGAGTGTGTCTGCGGGAGAAAGAGGAGAATCGCCCAAGCGGCCTC
GGAAGTCCCAGGGAGTGGAGGCCCCCGCCGTGGAGCCGTGTGGTGTATGTGTGGTAACACCATGTCTGTGCCCCCT
GCTCACCGATGCTGCCACCGTGTCTGGAGCTGAGCGGGAAACGGCCGCGGTTATTTTTTACATGGACTTGGAGA
CACAGGGCACAGCTGGGCTGACGCCCTCTCCACCATCCGGCTCCCTCACGTCAAGTACATCTGTCCCCATGCGCC
TAGGATCCCTGTGACCCTCAACATGAAGATGGTGTATGCCCTCCTGGTTTGACCTGATGGGGCTGAGTCCAGATGC
CCCAGAGGACGAGGCTGGCATCAAGAAGGCAGCAGAGAACATCAAGGCCTTGATTGAGCATGAAATGAAGAACGG
GATCCCTGCCAATCGAATCGTCTGGGAGGCTTTTACAGGGCGGGGCCCTGTCCCTCTACACGGCCCTCACCTG
CCCCACCCTCTGGCTGGCATCGTGGCGTTGAGCTGCTGGCTGCCCTCTGCACCGGGCCTTCCCCAGGCAGCTAA
TGGCAGTGCCAAGGACCTGGCCATACTCCAGTGCCATGGGGAGCTGGACCCCATGGTGCCCGTACGGTTTGGGGC
CCTGACGGCTGAGAAGCTCCGGTCTGTTGTACACCTGCCAGGGTCCAGTTCAAGACATACCCGGGTGTCATGCA
CAGCTCCTGTCTCAGGAGATGGCAGCTGTGAAGGAATTTCTTGAGAAGCTGCTGCCCTCCTGTCTAACTAGTCGC
TGGCCCCAGTGCAAGTACCCAGCTCATGGGGGACTCAGCAAGCAAGCGTGGCACCATCTTGGATCTGAGCCGGTC
GAGCCCCGTGTCCCCACCCTTCCCTGACCTGTCTCTTTTCCACAGGCCTCTGGGGGCAGGTGGCAAGGCCTGGCCGG
GCCTTCCTTCCCTGGCCTTAGCCACCTGGCTCTGTCTGCAGCAGGGGCAGGCTGCTTTCTTATCCATTTCCCTGGA
GGCGGGCCCCCTGGCAGCAGTATTGGAGGGGCTACAGGCAGCTGGAGAAAGGGGCCAGCCGCTGACCCACTCA
CTCAGGACCTCACTCACTAGCCCCGCTTTGGGCCCCCTCCTGTGACCTCAGGGTTTGGCCCATGGGGCCCCCA
GGCCCCCTGCCCCAACTGATTCTGCCAGATAATCGTGTCTCCTGCCCTCCACTCAGCTGCTTCTCAGTCATGAATG
TGGCCATGGCCCCGGGGTCCCCCTGCTGCTGTGGGCTCCCTGTCCCTGGGCAGGAGTGCTGGTGAGGAGGTGGAG
CCTTTTGAGGGGGCCTTCCCTCAGCTGTTTCCCCACACTGGGGGGCTGGGCCCTGCCTCCCCGTTACCCCTCCTT
CCCTGCAGGCCTGGAGCCTGTAGGGCTGGACTGAGGTTCAAGGTCTCCCCCAGCTGTCTCAGCCCCACTTTGTCC
CCACTCTAGAGCAGGGAGGCAGTGGGGGAGGAGTTGTGTCTCGTCTTCTGTCTCCATGTGGTTTTTGGGTGTTTT
TCTTGTTGTCTCGGATTCCGATAAAATTAAAGAAATTGCTTCCTCAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 90

MCGNTMSVPLLTDAATVSGAERETAAVIFLHGLGDTGHSWADALSTIRLPHVKYICPHAPRIPVTLNMKMVMPSW
FDLMGLSPDAPEDAEAGIKKAAENIKALIEHEMKNIGIPANRIVLGGFSQGGALSLYTALTCPHPLAGIVALSCWLP
LHRAFPQAANGSAKDLAILQCHGELDPMVPVRFGALTAEKLRVVTTPARVQFKTYPGVMHSSCPQEMAAVKEFLE
KLLPPV

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FIGURE 91

AGAAGGAGAAGGTCGGGTTGTAGAAGCTGGGGTGGCCGGCAGCTCGCTCATCGGTGTTTCGTGGGCTTTGTCCGGTC
CGTGCCCTCGTCTCTCCCTGGAAAGGGAGGGAGGCTTCGACGTCGAGAGGGAGCCGCTGCCGCGTTAGTTCGGAGC
TTGAAGTCACTAGGACTTCTCTCAAACCTTGTGTGCTGAGGAGACTCAGATGTTGGCCTCAGCTCCTAGGCTGAAC
TCAGCAGATCGGCCCATGAAAACCTTCTGTATTGAGACAAAGGAAGGGATCTGTCAAGAAAGCAACACTTGTATCT
TGGGCTTGGCAGCAAGGAAGAGGACAGGTAGTGGAGATCCTGCAATCTGAAAAGCAGACTGAAAGGTGACAAAGA
AGCTGAAGATGGGTGGTGGAGAGAGGTATAACATTCCAGCCCCTCAATCTAGAAATGTTAGTAAGAACCAACAAC
AGCTTAACAGACAGAAGACCAAGGAACAGAATTCCCAGATGAAGATTGTTCAATAAGAAAAAGAAAGAGGACATG
GTTATAACTCATCAGCAGCTGCCTGGCAGGCCATGCAAAATGGGGGGAAGAACAAAAATTTTCCAAATAATCAAA
GTTGGAATTCTAGCTTATCAGGTCCCAGGTTACTTTTTAAATCTCAAGCTAATCAGAACTATGCTGGTGCCAAAT
TTAGTGAGCCGCCATCACCAAGTGTCTTCCCAAACCAAGCCACTGGGTCCCTGTTTCCTTTAATCCTTCAG
ATAAGGAAATAATGACATTTCAACTTAAACCTTACTTAAAGTACAGGTATATAATAAGACAAATGTTTAAATTT
AGTTATGTTACGGATAGTTGTCAATTGGTCTGAAACAAATTCGCTAGGGAACTCTATTTGTGTAGAACTAATTAA
TGTAACAAAAACAGACCATCTCGTGTGTGTGCACTGTGATATAATGGTAGTATCAGTGCAACTTTAATGATTGT
ACTTGATATTAAGTGTCTCAACIGAGTAACTTTTAAGTGGAAACCAAGTTTAGATTTGGGGAGTGGTAAAGGAA
TCAGCTTTTTCTATTGTTAGGGGAAGACAGTAATTTATCATTATGGACCAGTAGATTGTTGAAAGTTGGTGAAT
CGGATTATAAGCTTCTAGCTAACACAAGGATTGAGAATTAGGTAAACATCTGAAGGTTTAGTATATTAGAAACAC
CCAAACCAGTAATATGCTAACCTGATGCACTGCTGAAAGAAAAATGTGAATTTTTCGTAATAATTGCATTTTAGTG
AATTGTACAGTGGGTGGAAAGGGCATTTGGAGCTCATTAGAATGAGACATAGTACACCCCAATGGCCCTGTTTAT
TAAATGTAGTGGATTAAGTGTCTGTCAACAAATACACCAAAACCATTTTTTATAGAAACAGTATTTAATGGTCAC
TCAATAGCTTTCAAATAACATTTTTGTATTACAGCACTGCACAAGCTATTCTAATAGTGCTCTCGCCTCATCATT
CCTGCAAAGCTTGCTTTGGGGAGTTGGATAATGTGAAATTTTAAAGTACCTAGGGGAGAAAGAGCCATGTAAATA
TCTGTAATAAACTTGTAGCATATGTAAAGTTTTCTTGGCCTTTATCTTACAAAAATGGAGTATTTTAGTAIGAAT
TTGCTGAATGTAAGACCGTGGACTGTTTTTATAATATGGCCTAATTTTAAAGGTCCAAATAACTTGTTTTTAA
AGTTTGCCCTTGTGCTAAAGTGCCAGTGTATGTATGTTTACTTGATTGGTTGTAACTATATTTCAAAGTAAA
CCCTAGTGTAATAAGTTTTATAACTAAAAAGGTTTAAAGCTGCTAAAACATTTTTTAAAGAGATGTGAAATGCAGTA
TGGGACTATCTTTTTTCTCCTCTAAGCCCAAAGATTAAGTAGAGTCCCTCCAACCTTATAGATTGTTGGCTTT
CACAATCTTATAACCTAGGATACAGGTAGTTTCGAGTATGGTGCCAGTGATGTTTTGTTTTGTTTGGTCAAGGG
GTAGGTGCAACCCATGGACCACTTATGCAAAAGATGTAACTCTTGCAATAACATTGATAACATGTTTGGCCA
ACTTTAAATGCTTAAACATAAGCGAAACCAGTAGCAAGTATGTGGGTGAGCTTAAAAATTTTGATTGTTAATGCC
CTATTTTCTAATTTGGCACCTCTTGATGCCTAAGCAGGTAAAGCAGATGCCTAAGCTGTATTTCTCCAAATAAATC
AAGATGAAGTACTGCCCAAGTTAAATATTGATAGCCTAAGACAAGTTTATGTAGTACTTAATGTACATGATATG
AATGTGAAGCATAAATTAATAAAATTTTCCCCATTAACAAAAA

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FIGURE 92

MGGGERYNIPAPQSRNVSKNQQLNRQKTIKEQNSQMKIVHKKKERGHGYNSSAAAWQAMQNGGKNKNFPNNQSWN
SSLSGPRLLFKSQANQNYAGAKFSEPPSPSVLPKPPSHWVPVSFNPSDKEIMTFQLKTLLKVQV

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FIGURE 93

GTCTGAGGCTCGGCCGCTGAGCCGCGGACGGTTTGCTGAGCCCGTTAGTGCGCCCGGCCGAGACACGCCGCCGC
CATGTCCCGCTACCTGCGTCCCCCAACACGTCTCTGTTTCGTAGGAACGTGGCCGACGACACCAGGTCTGAAGA
CTTGCGGCGTGAATTTGGTCGTTATGGTCCTATAGTTGATGTGTATGTTCCACTTGATTTCTACACTCGCCGTCC
AAGAGGATTTGCTTATGTTCAATTTGAGGATGTTTCGTGATGCTGAAGACGCTTACATAATTTGGACAGAAAGTG
GATTTGTGGACGGCAGATTGAAATACAGTTGCCCAGGGGGATCGAAAGACACCAAATCAGATGAAAGCCAAGGA
AGGGAGGAATGTGTACAGTTCTTCACGCTATGATGATTATGACAGATACAGACGTTCTAGAAGCCGAAGTTATGA
AAGGAGGAGATCAAGAAGTCGGTCTTTTGATTACAACATAGAAGATCGTATAGTCCTAGAAACAGTAGACCGAC
TGGAAGACCACGGCGTAGCAGAAGCCATTCCGACAATGATAGACCAAACGTCAGCTGGAATACCCAGTACAGTTC
TGCTTACTACACTTCAAGAAAGATCTGAAAGCGGAAAAAGAACCAAAGAAGGGCAGTTCAAGCGACCAAAGGGTG
GGTGAAGGTGCTGCAGTATGAATACTGTACGAATATTTGACTCTGGTCTGAAAAGATAAAAGAAATGTTATCGA
AACTACATGGAATAATTGAAGTCCCTTCAAGTTTGAAAGTAAGCATTTTAGGACAAATAAAAGGAAATTCAACT
TTGTACTTGTGGAAACTAATCCCTAAATATGAATAGGTTTATATTGATTGATGGGTAAACAGGTCCATAATAAATT
ATTGGAACCTAGGATGTCTGAATATCAAGGAAGACAGCCATAGTCTCTTACAGTGCCTCTGTTGGTCTGTCTCAA
ACTGAATTGGGTGGGAAAAGGTATGGTCCAATATAAAAGTTCATTTTGGCATTATTGGCAAATCTTGCCTTTG
TTTATTTTGGTGCCAGTGTCTTCTGCTTAATCATTGCTTTGTTGGCATCTGTGTTTATTACTTGTACACCACA
TGCAGTTTACATCTGTCTTAACCTACTCCTCCAGGTAAATTCCAATTATATTGACATCCAGCTAAGAGGGCCC
ATCTCTCTCACCTCTTTCCTAGTCAGTATATTCAGCAAATATTTATTGAGCCCTTACTGTGGGCAATCATTGT
ACTGGATAATTGAGAAAAATAGATAATCCCTTATTCAGTAAATGTCTACTGAGCACAATCTAGTGAATCATTAC
AGTATGGCCTCATTGTTTTGTTTGGGTGTGTTATTCATAACAATATTTTACACCATTTCGTATCAATGTAATTAT
AGAACACAATATACGATCAAGGATAAGTAATTGTGTGGTTATCTGCCATTTAAAAGTATCCAGTATTTGATCACA
TTATTATAAATAATGAAAAAATGATTTAATCTGTAATAAACTGGTTTATTGTGCACTGACTGTAATATACTAGAG
TTATAATAAATTGTTTACTCTGCCTCACCAACACATGCTAGGATATAACCCCAAAATAAGTATTTAACTTTGC
ATTAGGTATAAAGGAGACTGGGTGCTATAATTAGATTATTTGAGGCAGACAGAGAGCTGTTATCCTAACTGATT
TAGTATGTTCTGTAATTGAGAAAATGTTACCAAATTATACTTTTTAGTGATTACATGTACATTTTATAGGGGA
CATGTTCTGTGTATAGCGAATAAATAACTTTTATAGTATCAC

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FIGURE 94

MSRYLRPPNTSLFVRNVADDTRSEDLRREFGRYGPIVDVYVPLDFYTRRPRGFAYVQFEDVRDAEDALHNLDRKW
ICGRQIEIQFAQGDRKTPNQMKAKEGRNVYSSRYDDYDRYRRSRRSYERRRSRRSFDYNYRRSYSPRNSRPT
GRPRRSRSHSDNDRPNCSWNTQYSSAYYTSRKI

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FIGURE 95

GTCTGAGGCTCGGCCGCTGAGCCGCGGACGGTTTGCTGAGCCCGTTAGTGCGCCCGGCCGAGACACGCCGCCGC
CATGTCCTCCGCTACCTGCGTCCCCCAACACGTCTCTGTTGCTCAGGAACGTGGCCGACGACACCAGGTCTGAAGA
CTTGCGGCGTGAATTTGGTCTTATGGTCCTATAGTTGATGTGTATGTTCCACTTGATTTCTACACTCGCCGTCC
AAGAGGATTTGCTTATGTTCAATTTGAGGATGTTTCGTGATGCTGAAGACGCTTTACATAATTTGGACAGAAAGTG
GATTTGTGGACGGCAGATTGAAATACAGTTTGCCCAAGGGGATCGAAAGACACCAAATCAGATGAAAGCCAAGGA
AGGGAGGAATGTGTACAGTTCTTCACGCTATGATGATTATGACAGATACAGACGTTCTAGAAGCCGAAGTTATGA
AAGGAGGAGATCAAGAAGTCGGTCTTTTGATTACAACATAGAAAGATCGTATAGTCCTAGAAACAGTAGACCGAC
TGGAAGACCACGGCTAGCAGAAGCCATTCCGACAATGATAGATTCAAACACCGAAATCGATCTTTTTCAAGATC
TAAATCCAATTCAGATCACGGTCCAAGTCCAGCCCAAGAAAGAAATGAAGGCTAAATCACGTTCTAGGTCTGCG
ATCTCACACCAAACTAGAGGCACCTCTAAAACAGATTCCAAAACACATTATAAGTCTGGCTCAAGATAGAAAA
GGAATCAAGGAAAAAGAACACCTAGATCCAAATCTCAGTCAAGATCACAGTCTAGGTCTAGGTCAAAATCTAG
ATCAAGGTCTTGACTAGTCCTAAGTCCAGTGGCCACTGATAGTATAAACCATGGTCATTTTTAGGCGATGTATCA
TTCATTTACTCATAGTTTGGTTTACTTAAATTATCAGGAATACAATGTTGCAATGATGCTTAAAAAACACTTGTT
AGTTTTCCCTGTACCAGGCAATGGTTATAATTAAATGATATGCTGTTGAGAAGCCACTCTTAAGAGTCCAGTTT
GTTAATGTTATGGGCAGCTACCAATTTGTTGGTGTCTCTGTATATTTTTGTAAAGATTCTCATTTTTATGCTTG
AAGTATTTGGTGAAAAGATGTTGGTTGACCATAATTTGCAACATTGTCTCATTAAAAATAAACTTTCATATTCAT
ATTTGGTAGAACTGTTAACCTAGAAATGTAGCTTGCTAATAAGATAGAATGATACAAAAGTGAAGTAGTAGCCAC
AGTACAACACTGACTGCTCAGACACATTTAGGTTTCCAGGGTGGACCTTTATGTCTTGCAAGATGTCTAGGCCCGG
CTGGGCGTGGTGGCTCACACCTGTAATCCAGCACTTTGGGAGGCCGAGGCCGGCGGATCACGAGGTCAGGAGTT
CGAGACCAGCCTGACCAACACGGTGAAACCCCGTCTCTACTAAAAATACAAAAATATCCGGGCATGGTGGCACA
TGCCTGTAATCTCAGCTACTCAGGAGGCTGAGGCAAGAGAATCGCTTGAACCTGGGAGGTAGAAGTTGCAGTGAG
CCAAATCACGCCACTGCACTCCAGCCTGGGCAACAGAGTGAGACTCCGTCTCAAAAAAAAAAAAAACCGGATG
TCTAGGCCAATGATAATTATTTTGATGCAGTGTGGATTAGTTCTTTTGTAAACCCACTGTCTTGGGGAATGAT
GCCAGCTGGGAAATTGAGTTTTGACTGAAACATGGAGCCTTCACTGCTTTTTTCTGGTTCCTATGAAGATTTG
GAACATAGAAAACACAAAACTCACCTTAAAAATTGAGCAGGTCGTTGATGGCAAAAATAATTTTAAGGAAAAAG
GAAATATCTTATGTAGTTATTCTAAAGTTTAAAGGAGCGTTGTTGACCATAATATTGCTTAGTTTTCTTACTGCTG
TTAAGTAAGTAAATTGTTCAAAGTAGTTTTGTGTGTGTGCTAGTGTAAGAAGTGAATTTTATGATGCTT
ACAGCACTTGGCTCGTGCAATTTGTATCAAAATTTGCCTGCCTCTTATGAGGGAGGCCTGCTTTTACACCTCAG
TTTATTTAATACGAGGCAAGTTGTAAGACAACACTCATTCTAGGTGATTCTGTGGTGCCATGAAATTTAAGGTAA
TTTGGGGAAAAGGATTAGTCAGTTTTAAGCAAGAGTCACATCTTTGAGCTTTTCGATTATCAGTGTAGTACCTGA
CTAAAAATGAAGTAATACCCCTTAAACCATTTATAATTTCTAGTATTTCTCTGAAAGATCGTTTTGGGGACAAAAG
TGACTTTGACATGTCCAATTTTCAATTTTCAAGATAAAGCTAGCATCTTTAAAAATCTCAGATTGCTTGCTTACAGA
TACAAGTACGAATTATGGACAAACGATTCTTTTAGAGGATTACTTTTTCAATTTCCGTTTTAGTAATCTAGGC
TTTGCTGTAAAGAATACAACGATGGATTTTAAATACTGTTTGTGGAATGTGTTTAAAGGATTGATTCTAGAACC
TTTGATATTTGATAGTATTTCTAACCTTTTCTTTTACTGTTTGCAGTTAATGTTTCATGTTCTGCTATGCAAT
CGTTTATATGCACGTTTTCTTTAATTTTTTAGATTTTCTGGATGTATAGTTTAAACAACAAAAGTCTATTTAA
AACTGTAGCAGTAGTTTACAGTTCTAGCAAAGAGGAAAGTTGTGGGGTTAACTTTGTATTTTCTTTCTTATAGA
GGCTTCTAAAAAGGTATTTTTATATGTTCTTTTTAACAAATATTGTGTACAACCTTTAAACATCAATGTTTGA
TCAAAACAAGACCCAGCTTATTTCTGCTTGCTGTAAATTAAGCAAACATGCTATAATAAAAAACAAATGAAGG

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FIGURE 96

MSRYLRPPNTSLFVRNVADDTRSEDLRREFGRYGPIVDVYVPLDFYTRRPRGFAYVQFEDVRDAEDALHNLDKRW
ICGRQIEIQFAQGDRKTPNQMKAKEGRNVYSSSRYYDDYDRYRRSRRSYERRRSRSSFYDYNRRSYSPRNSRPT
GRPRRSRSHSDNDRFKHRNRSFSRSKSNRSRKSQPKKEMKASRSRSASHTKTRGTSKTDKTHYKSGSRYEK
ESRKKEPPRSKSQSRSQSRSRKSRSRSWTSPKSSGH

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FIGURE 97

AGGAACGAGATGGCGGTTCTCTGGAGGCTGAGTGCCGTTTGCGGTGCCCAAGGAGGCCGAGCTGGCTCCAAGGCT
GCATCTCTCCACTGGACTAGCGAGAGGGTTGTCAGTGTGTTTGCTCCCGGGTCTGCTTCCGGCTGCTTATTTGAAT
CCTTGCTCTGCGACGGACTATTCCCTGGCTGCAGCCCTCACTCTTCATGGTCACTGGGGCCTTGGACAAGTTGTT
ACTGACTATGTTTCATGGGGATGCCTCGCAGAAAGCTGCCAAGGCAGGGCTTTTGGCATTTCAGCTTTAACCTTT
GCTGGGCTTTGCTATTTCAACTATCACGATGTGGGCATCTGCAAAGCTGTTGCCATGCTGTGGAAGCTCTGACCT
TTTTGACTTCCTACTTTGAAGAATTGATGTATGCCTCTTTGCCTCTGCTTTGTTCATGCCATTAAGCTCACAATAA
GGAAGAAATAACAGATAAGTCCATTGGTGGACAGCCTTCTTCTTAATCACAAGATTATTTTCAGAATTTAACT
TTGAGGAAAAGGTTTGAGAGGAATTATATTTAAGTTGTGAGACTGAGTTCTGTATTCTGGTGAGTTAATGGGGTT
GCCTCCAGCTTCTTATAAGACTCACAGTATAACTAAACATGATATATCAGCTTTTGCCTTTTAATTTCTCAATC
TCTTAAAGAGAATC

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FIGURE 98

CAGGAACGAGATGGCGGTTCCCTGGAGGCTGAGTGCCGTTTGCGGTGCCCAAGGAGGCCGAGCTCTGTTGCTGCG
AACTCCAGTGGTCAGACCTGCTCATATCTCAGCATTTCTTCAGGACCGACCTATCCCAGAAATGGTGTGGAGTGCA
GCACATACACTTGTACCGAGCCACCATTCTGGCTCCAAGGCTGCATCTCTCCACTGGACTAGCGAGAGGGTTGT
CAGTGTTTTGCTCCCGGGTCTGCTTCCGGCTGCTTATTTGAATCCTTGCTCTGCGACGGACTATTCCCTGGCTGC
AGCCCTCACTCTTCATGGTCACTGGGGCCTTGACAAGTTGTTACTGATTATGTTTCATGGGGATGCCTCGCAGAA
AGCTGCCAAGGCAGGGCTTTTGGCATTTCAGCTTTAACCTTTGCTGGGCTTTGCTATTTCAACTATCACGATGT
GGGCATCTGCAAAGCTGTTGCCATGCTGTGGAAGCTCTGACCTTTTTGACTTCCTACTTTGAAGAATTGATGTAT
GCCTCTTTGCCTCTGCTTTGTCATGCCATTAAGCTCACATAAGGAAGAAATAACAGATAAGCCCCATTGGTGGAC
AGCCTTCTTCTCTTAATCACAGATTATTTTCAGAATTTAATCTTTGAGGAAAAGGTTTGAGAGGAATTATATCT
AAGTTGTGAGACTGAGTTCTGTATTCTGGTGAGTTAATGGGGTTGCCTCCCAGCTTCTTATAAGACTCACAATAT
AACTAAACATGATATATCAGCTTTTGCCTTTTAATTTCTCAATCTCTTAAAGAGAATCCAGCTTTATTATGATTA
GTACATGATCAAATTTCCATATTTGCCTTGGAATAATGGACAAAGGGAAATACTCTTAATTCATGAATAAAAAC
TTTGCAGAAAATTAGACAGTGTTAATTTCAAAAACCTCCCTCTCTAGTCAGTAGATAACCCTACTGATGGTT
ACATATACTAGGGAAATTTTAAATTAGGAAATGCTGCTATCTCATATTATAAATTTCTAAATCCTAGGAAGAAA
CGCTTGGAGTGCTTCTGAAGATACAGAAGTTCCATTTAAGGGCAAGTTTCCCCAGAGACATATCAAAATATTATC
CATTGTAACTGAGATTTAATTCTCAAATGTATTCTACTTGTCTAAACAATCTGTCCACAAATATAAACTAT
AAGTAATAAATTGTTATTTCCGCACAATGGGAATCTCTAATGTGAAAATGTATTCTATGAAAATAATTTTTTTAA
ATAAAATGTTGTATAAAAAAA

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FIGURE 99

AGAGAGAAAGGTTGTGATGGCGGCTATAGCTGCATCCGAGGTGCTGGTGGACAGCGCGGAGGAGGGTCCCTCGC
TGCGGCGGCGGAGCTGGCCGCTCAGAAGCGCGAACAGAGACTGCGCAAATTCGGGAGCTGCACCTGATGCGGAA
TGAAGCTCGTAAATTAAATCACCAGGAAGTTGTGGAAGAAGATAAAAGACTAAAATTACCTGCAAATTGGGAAGC
CAAAAAAGCTCGTTTGGAGTGGGAACTAAAGGAAGAGGAAAAGAAAAGGAATGTGCGGCAAGAGGAGAAGACTA
TGAGAAAGTGAAGTTGCTGGAGATCAGTGCAGAAGATGCAGAAAGATGGGAGAGGAAAAAGAAGAGGAAAAACCC
TGATCTGGGATTTTCAGATTATGCTGCTGCCCAGTTACGCCAGTATCATCGGTTGACCAAGCAGATCAAACCTGA
CATGGAAACATATGAGAGACTGAGAGAAAAACATGGAGAAGAGTTTTTCCCAACATCCAATAGTCTTCTTCATGG
AAGACATGTGCCTTCCACAGAGGAAATTGACAGGATGGTCATAGATCTGGAAAAACAGATTGAAAAACGAGACAA
ATATAGCCGGAGACGTCCTTATAATGATGATGCAGATATCGACTACATTAATGAAAGGAATGCCAAATTCACAA
GAAAGCTGAAAGATTCTATGGGAAATACACAGCTGAAATTAAACAGAATTTGGAAAGAGGAACAGCTGTCTAATC
CCTTCAAGAACTGTTTATAGAAGCTTGAGAATGGGGTAAAAATTTCTGCTAGCAAAATCAAGTTCTTTTTGAAAT
TTTATCAGTAATCCAGAATTTAGTAGTCCATGCCTTCTCACTCAGCATTAGAAATAAAAAATGTGGTTTCTTAAA
CGTATATCCTTTTCATGTATATTTCCACATTTTGTGCTTGGATATAAGATGTATTTCTTGTAGTGAAGTTGTTTT
GTAATCTACTTTGTATACATTCTAATTATATTTTTCTATGTATTTTAAATGTATATGGCTGTTTAAATCCTTG
AAGCATTTTGGGCTTAAGATTGCCAGCAGCACACATCAGATGCAGTCATTGTTGCTATCAGTGTGGAATTTGATA
GAGTCTAGACTCGGGCCACTTGAGTTGTGTACTCCAAAGCTAAGGACAGTGATGAGGAAGATGGCAGTGGCCAC
CGGAGGACTGGAGCAGTCCCTCCATGCGGCTGTGACCAAGTTCGGGAGGAGTGGAGCTATCCTTCCATGA
TCTGATCATGTACAGTTCCCTTTTTAAAAAGCAATAAATGCTTGGGATTAGAATTTCTAAAAA

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FIGURE 100

MAAIAASEVLVDSAEESLAAAAELAAQKREQLRKFRLEHLMRNEARKLNHQEVVEEDKRLKLPANWEAKKARL
EWELKEEEKKKKECAARGEDYEKVKLLEISAEDAERWERKKRKNPDLGFSDYAAAQLRQYHRLTKQIKPDMETYE
RLREKHGEEFFPTSNSLLHGTHVPSTEEIDRMVIDLEKQIEKRDKYSRRRPYNDADIDYINERNAKFNKKAERF
YGKYTAEIKQNLERGTA .

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FIGURE 101A

GGCGGCCCACTCTGCTCTGTCTAGCTTCGGAGCTCCTCCACCCTGGCTGCCGAAAGCCCCTTCCCGCCATCTAATG
ATACACTCTGCATACGCTTCTGTTGAGAATTTGTGGCTAGACATTCCTGTGGGACCGGGAATCCAAATTCCTGGT
AGCTAGAGGAAAAAATAAAACAACAGCCAACCAAGTGAATCCCAACCCAACCCCTGAAGGGCTGAAAATTC
TCGCTTCTTTCAGAGCGGGGCATGGCATCGAACAGCATCTTCGACTCCTTCCCGACCTACTCGCCGACCTTCATC
CGCGACCCAAGCACCAGCCGCCGCTTCACACCTCCCTCCCCGGCCTTCCCTGCGGCGGGCGGGCGGCAAGATG
GGCAGAACAGCGCGCGCTGAGCGCGCAGGCGGCCGTGGGGCCCGAGGGCGCGCCCGGCCGAGGTGCGCTCG
ATGGTGGACGTGCTGGCGGACCACGAGGCGAGCTCGTGCGCACCAGACGCCCCAACTTCCTCTGCTCCGTGCTG
CCCTCGCACTGGCGCTGCAACAAGACGCTGCCCGTCGCTTCAAGGTGGTGGCATTGGGGGACGTGCCGGATGGT
ACGGTGGTGACTGTGATGGCAGGCAATGACGAGAACTACTCCGCTGAGCTGCGCAATGCCCTGGCCGTCATGAAG
AACCAGGTGGCCAGGTTCAACGACCTTCGCTTCGTGGGCCGAGTGGGCGAGGGAAGAGTTTACCCTGACCATC
ACTGTGTTTACCAACCCCAACCAAGTGGCGACCTACCACCGAGCCATCAAGGTGACCGTGGACGACCCCGGGAG
CCCAGACGGCACCGGCAGAAGCTGGAGGACCAGACCAAGCCGTTCCCTGACCGCTTTGGGGACCTGGAACGGCTG
CGCATGCGGGTGACACCGAGCACACCCAGCCCCGAGGCTCACTCAGCACCACAAGCCACTTCAGCAGCCAGCCC
CAGACCCCAATCCAAGGCACCTCGGAATGAACCCATTCTCCGACCCCGCCAGTTTGACCGCTCCTTCCCCACG
CTGCCAACCTTACGGAGAGCCGCTTCCAGACCCAGGATGCATTATCCCGGGGCCATGTAGCTGCCTTCCCC
TACAGCGCCACGCCCTCGGGCAGGACATCAGCAGCCTCAGCGTGGCGGGCATGCCGGCCACCAGCCGCTTCCAC
CATACCTACCTCCCGCCACCTTACCCGGGGCCCCGAGAACAGAGCGGGCCCTTCCAGGCCAACCCGTCCCCC
TACCACCTTACTACGGGACATCCTCTGGCTCCTACAGTTCTCCATGGTGGCCGGCAGCAGAGTGGGGGCGAC
CGCTCACCTACCCGCATGCTGGCCTCTTGCAACAGCAGCGCTGCCTCTGTGCGCGCGGCAACCTCATGAACCC
AGCCTGGGCGGCCAGAGTGATGGCGTGGAGGCCGACGGCAGCCACAGCAACTACCCACGGCCCTGAGCAGGCCA
GGCCGCATGGATGAGGCCGTGTGGCGGCCCTACTGACCGCCCTGGTGGACTCCTCCCGCTGGAGCGGGGACCT
AACAACTTCAAGACCAGTGATGGCGCGGCTCCGAGGCTCCGGGCGGGAATGGGACCTGCGCTCCAGGGTGGTCT
CGGTCCCAGGGTGGTCCCAGCTGGTGGGAGCCTCTGGCTGCATCTGTGCAGCCACATCCTTGTACAGAGGCATAG
GTTACCAACCCCAACCCGGCCCGGATACTGCCCCCGGCCAGATCCTGGCCGTCTCATCCCATACTTCTGTGGG
GAATCAGCCTCCTGCCACCCCGCGGAAGGACCTCACTGTCTCCAGCTATGCCAGTGCTGCATGGACCCATGT
CTCCTGGGACAGAGGCCATCTCTCTTCCAGAGAGGCGAGCATTGGCCACAGGATAAGCCTCAGGCCCTGGGAA
ACCTCCCGACCCCTGCACCTTCGTTGGAGCCCTGCATCCCTGGGTCCAGCCCTCTGCATTTACAGATTT
GAGTCAGAACTGGAAGTGTCCCCACCCCAACCCCTCGAGCGGGGTTCCCTCATTGTACAGATGGGGCAGG
ACCCAGCAGCTGCTGGCAGAGATGGTTTGAGAACACATCCAAGCCAGTCCCCCAGCCAGCTTCCCTCCGTT
CCTAACTGTTGGCTTTCCCCAGCCGCACGGTCCAGGCCCCAGAGAAGATGAGTCTATGGCATCAGGTTCTTA
AACCCAGGAAAGCACCTACAGACCGGCTCCTCCATGCATTTACCAGCTCAACGCATCCACTCTCTGTTCTTGT
GCAGGGCGGGGAGGGGGGATAGGAGGTCCCTTCCCTAGGTGGTCTCATAATTCCATTTGTGGAGAGAACAG
GAGGGCCAGATAGATAGGTCTAGCAGAAGGCATTGAGGTGAGGGATCATTGTTGGGTCAGACATCAATGTCCCTG
TCCCCCTGGGTCCAGCCAAGCTGTGCCCCATCCCCAAGCCTCCTGGGAGGATCCAGCCAAATCTTGCGACTCC
TGGCACACACCTGTCTGTAACCTGTTTGTGCTCTGAAAGCAAATAGTCTGAGCAAAAAAAAAAAAAAAAAA
AAAACAAAAAAAAAAACAAACAGTTTTTAAACTGATTTTAGAAAAAGAAGCTTAATCTAACGTTTTTCAAACACA
AGGTCTCTTACAGGTATAGTTCCGTGATTATGATAGCTCTGTGATTATAAGCAACATCCCCGCCCCCTCTCCCC
CCGCGGACCCCACTGCTCCTGAGGGTGTGGGGTTATTAGGGTCTCAATACTTTCTCAAGGGGTACACTCCC
CATCAGGCAGCATCCACAGCCTGCACCACAGGCTCCCCTGGGAGGACGAGGAAACGCTGATGAGACGCTGGG
CATCTCTCCTCTGTGGCTCTAGGACATCTGTCCAGGAGGCTGGGCGGAGGTGGGCAGGATGTGAGAGGTGGGGAG
TACTGGCTGTGCGTGGCAGGACAGAAGCACTGTAAAGGGCTCTCCAGCCGAGCTCAGCTGCACTGCGTTCCGAG
GTGAAGTCTTGGCCCTGAATTTGCAAAATGGGAAAGTGGGCGCTTGCCCAAGGGCCAGGCTGCATGGATTCTCA
CATCAGAGTTCTCTGGCCCTAGAAAGGCTTAGAAAAGGCGTAAGGGAACTCATAAAGGCTAGCAGCATGCGGTAT
TTTAACTTCTGCTCGCCCTCTGTGGATGCAGAAATCTGCCCTACAAAATGCTCTTCATTGGTTGTCTCTGTGA
GAGCACTGTCCCCACCAACCTGTCAACAGGCCAGAACCATAACCCAGAGACACACTGGCAGGTTAGGCAGTCC
TTCTGGTGTATCCTATTCCATTCCCTCCTGCTGCGGTTTCTCTTGGCCTGTCTCACTGGAAAAACAGTCTCCATC
TCTCAAAATAGTTGCTGACTCCCTGCACCCAAGGGGCTCTCCATGCCTTCTTAGGAAGCAGCTATGAATCCAT
TGTCTTGTAGTTTCTTCCCTCCTGTTCTCTGTTATAGCTGGTCCCAGGTCAGCGTGGGAGGCACCTTTGGGTT

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FIGURE 101B

CCCAGTGCCCAGCACTTTGTAGTCTCATCCCAGATTACTAACCCCTTCCTGATCCTGGAGAGGCAGGGATAGTAAA
TAAATTGCTCTTCCTACCCCATCCCCATCCCCTGACAAAAAGTGACGGCAGCCGTACTGAGTCTGTAAGGCCCA
AAGTGGGTACAGACAGCCTGGGCTGGTAAAAGTAGGTCCTTATTTACAAGGCTGCGTTAAAGTTGTACTAGGCAA
ACACACTGATGTAGGAAGCACGAGGAAAGGAAGACGTTTTGATATAGTGTTACTGTGAGCCTGTCAGTAGTGGGT
ACCAATCTTTTGTGACATATTGTCATGCTGAGGTGTGACACCTGCTGCACTCATCTGATGTAAAACCATCCCAGA
GCTGGCGAGAGGATGGAGCTGGGTGGAACTGCTTTGCACTATCGTTTGCTTGGTGTTTGTTTTAAACGCACAAC
TTGCTTGTAAGTAACTGTCTTCTGTACTATTTAACTGT

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FIGURE 102

CAGGAACGAGATGGCGGTTCTCTGGAGGCTGAGTGCCGTTTGCGGTGCCCAAGGAGGCCGAGCTCTGTTGCTGCG
AACTCCAGTGGTCAGACCTGCTCATATCTCAGCATTCTTCAGGACCGACCTATCCAGAATGGTGTGGAGTGCA
GCACATACACTTGTACCGAGCCACCAATTCTGGCTCCAAGGCTGCATCTCTCCACTGGACTAGCGAGAGGGTGT
CAGTGTTTTGCTCCCGGGTCTGCTTCCGGCTGCTTATTTGAATCCTTGCTCTGCGACGGACTATTCCCTGGCTGC
AGCCCTCACTCTTCATGGTCACTGGGGCCTTGGACAAGTTGTTACTGACTATGTTTCATGGGGATGCCTCGCAGAA
AGCTGCCAAGGCAGGGCTTTTGGCATTTCAGCTTTAACCTTTGCTGGGCTTTGCTATTTCAACTATCACGATGT
GGGCATCTGCAAAGCTGTTGCCATGCTGTGGAAGCTCTGACCTTTTGAAGTTCCTACTTTGAAGAATTGATGTAT
GCCTCTTTGCCCTCTGCTTTGTTCATGCCATTAAGCTCACAATAAGGAAGAAATAACAGATAAGTCCATTGGTGGAC
AGCCTTCTTCTCTTAATCACAAGATTATTTTCAGAATTTAACTTTGAGGAAAAGTTTGAGAGGAATTATATTTA
AGTTGTGAGACTGAGTTCTGTATTCTGGTGAGTTAATGGGGTTGCCCTCCAGCTTCTTATAAGACTCACAGTATA
ACTAAACATGATATATCAGCTTTTGCCTTTTAATTTCTCAATCTCTTAAAGAGAATCCAGCTTTAGTATGATTAG
CATATGATCAAACCTCCATATTTGCCTTGGGAATAATGGACTAAGGGAAATACTCTTAATTCATGAATAAAACT
TTGCAGAAAATTAGACAGTGTTTAAATTTTCAAAAACCTCCCTCTCTAGTCGGTAGATACCACCTACCGATGGTTA
CATATACTAGGGAAATTTTAAATTTAGGAAATGCTGATATCTCATATTATAAATTTCTAAATCCTAGGAAGAAAC
GCTTGGAGTGCTTCTGAAGATACAGAAGTTCCATTTAAGGGCAAGTTTCCCATAGACGTATCAAATATTACCC
ATTGTAACTGAGATTTAATTCTCAAATGTATTCTACTTGTCTTAAACAATCTGTCCACAAATATAAACTATA
AGTAATAAATTGTTATTTTCGCACAATGGGAATCTCTAATGTGAAAATGTATTCTGTGAAAATAAATTTTTAAAT
AAAATGTTGTATAATAA

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FIGURE 103

AGGAACGAGATGGCGGTTCTCTGGAGGCTGAGTGCCGTTTGCGGTGCCCAAGGAGGCCGAGCTGGCTCCAAGGCT
GCATCTCTCCACTGGACTAGCGAGAGGGTTGTCAGTGTTTTGCTCCCAGGCTCTGCTTCCGGCTGCTTATTTGAAT
CCTTGCTCTGCGACGGACTATTCCCTGGCTGCAGCCCTCACTCTTCAIGGTCACTGGGGCCTTGGACAAGTTGTT
ACTGACTATGTTTCATGGGGATGCCTCGCAGAAAGCTGCCAAGGCAGGGCTTTTGGCATTTCAGCTTTAACCTTT
GCTGGGCTTTGCTATTTCAACTATCACGATGTGGGCATCTGCAAAGCTGTTGCCATGCTGTGGAAGCTCTGACCT
TTTTGACTTCCTACTTTGAAGAATTGATGTATGCCTCTTTGCCTCTGCTTTGTCATGCCATTAAGCTCACAATAA
GGAAGAAATAACAGATAAGTCCATTGGTGGACAGCCTTCTTCTCTTAATCACAAGATTATTTTCAGAATTTAACT
TTGAGGAAAAGGTTTGAGAGGAATTATATTTAAGTTGTGAGACTGAGTTCTGTATTCTGGTGAGTTAATGGGGTT
GCCTCCAGCTTCTTATAAGACTCACAGTATAACTAAACATGATATATCAGCTTTTGCCTTTTAATTTCTCAATC
TCTTAAAGAGAATC

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FIGURE 104

MAVLRRRLSALYGAQGGRALLRTPVIRPAHISAFLODRPIPEWCGVQHLHLSPSHHPGSKAASLHWTSERVVSVL
LLGLLPAAYLNPCSAMDYSLAATLTLPGHWGLRQVVTMFMGMPRRKLPRQGFWHFQL

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FIGURE 105

AGTGTGGTCAGGCGGCTCGGACTGAGCAGGACTTTCCCTTATCCCAGTTGATTGTGCAGAATACTGCCTATCGC
TTGTCTTCTATTACCATGGCTTCTTCTGATATCCAGGTGAAAGAACTGGAGAAGCGTGCCTCAGGCCAGGCTTT
TGAGCTGATTCTCAGCCCTCGGTCAAAAGAATCTGTTCCAGAATCCCCCTTTCCCCTCCAAAGAAGAAGGATCT
TTCCTGGAGGAAATTCAGAAGAAATTAGAAGCTGCAGAAGAAAGACGCAAGTCCCATGAAGCTGAGGTCTTGAA
GCAGCTGGCTGAGAAACGAGAGCACGAGAAAGAAGTGCTTCAGAAGGCAATAGAAGAGAACAACAACCTTCAGTAA
AATGGCAGAAGAGAACTGACCCACAAAATGGAAGCTAATAAAGAGAACCGAGAGGCACAAAATGGCTGCCAACT
GGAACGTTTGCAGAGAAGGATAAGCACATTGAAGAAGTGCGGAAGAACAAGAATCCAAAGACCCTGCTGACGA
GACTGAAGCTGACTAAATTTGTTCTGAGAAGTACTTTCTCCCCATCCCCTTCCTAAATATCCAAAGACTGTACTG
GCCAGTGTCAATTTATTTTTCCCTCCTGACAAATATTTTAGAAGCTAATGTAGGACTGTATAGGTAGATCCAGA
TCCAGACTGTAAGATGTTGTTTAGGGGCTAAAGGGGAGAACTGAAAGTGTTTTACTCTTTTTCTAAAGTGTTG
GTCTTTCTAATGTAGCTATTTTCTTGTGTCATCTTTTCTACTTCAGTACACTTGGTGTACTGGGTAAATGGCTA
GTACTGTATTGGCTCTGTGAAAACATATTTGTGAAAAGAGTATGTAGTGGCTTCTTTGAACTGTTAGATGCTGA
ATATCTGTTCACTTTTCAATCCCAATTCTGTCCCAATCTTACCAGATGCTACTGGACTTGAATGGTTAATAAAAC
TGCACAGTGCIGTTGGTGGCAGTGACTTCTTTTGAGTTAGGTAAATAAATCAAGCCATAGAGCCCCTCCTGGTTG
ATACTTGTTCCAGATGGGGCCTTTGGGGCTGGTAGAAATACCAACGCACAAATGACCGCACGTTCTCTGCCCCG
TTTCTTGCCCCAGTGTTGTTTGCATTGTCTCTTCCACAATGACTGCTTTGTTTGGATGCCTCAGCCCAGGTCAG
CTGTTACTTTCTTTCAGATGTTTATTTGCAAACAACCATTTTTTGTTCGTGTCCCTTTTAAAAGGCAGATTAAA
AGCACAAGCGTGTCTAGAGAACAGTTGAGAGAGAATCTCAAGATTCTACTTGGTGGTTTGCTTGCTCTACGTT
ACAGGTGGGGCATGTCTCATCCTTTCTGCCATAAAAGCTATGACACGAGAATCAGAATATTAATAAAACTTTA
TGTA CTGCTGT

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FIGURE 106

MASSDIQVKELEKRASGQAFELILSPRSKESVPEFPLSPPKKKDLSLEEIQKKLEAAEERRKSHEAEVLKQLAEK
REHEKEVLQKAIENNNSKMAEEKLTHKMEANKENREAQMAAKLERLREKDKHIEEVRKNKESKDPADETead

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FIGURE 107

GTGCAACGGCCGTTAGAGGAGCTGAGGGAGGGAACCAACCGCTCACCGCAGACGTAGTGGCTGCAGTCAGTCTTCC
CGAGTGAGGGATTTCGCCGCCCGCTTTTCAGGCCCGTTTGGCTTAAATAACTGTGATTGATGGCCATGCAGGAGAA
ATATCCAACCTGAGGGGATCTCTCACGTCACTTCACCGAGTTCGGATGTGATTTCAGAAAGGCGAGTTCCTTGGGGAC
TGAATGGCAGACCCAGTTATCTCGAGCCCTTTTCGAGCCGCTTCAGCCGCTGTTCAAGTGTAGCCGACAGTGG
GGACACAGCCATTGGTACATCATGCTCAGATATTGCGGAGGATTTTTCAGCTCAAGTGGCAGTCTCTCTTTCCA
GCCCCATCAAAGCCACGTAACCATCCAACAGCCCATGTGATGCCTTCTACTTTAGGGACCTCTCCTGCCAAGCC
AAATTCTACACCTGTTGGACCCTCTCTCTTAACTCCCTTTTGTCAGGGTTGGCTGAAAGTGTGGGAATGACAAG
AAATGGAGACCTCGGTGCAATGAAACATTCTCCAGGCCTATCTAGAGATCTCATGTATTCTCTGGTGTACTGG
AGAAAATGGAATTGAGCAGTCTGGTTTCCAGCAGTGGGCCATGAAAGACAAGAAGAGGCGAGGAAGTTTGATAT
TCCTAGCATGGAATCTACCCTCAATCAGTCGGCAATGATGGAGACACTTTATTTCAGATCCTCACCACCGAGTCCG
CTTCCACAACCCAGAACCAGCACAGTAAGGAGTTGTACAGAGTGTTCCTGAGGCCAAGAAGGCACCGGGCAG
CGGGGCAGTGTGTTGAGCGGAATGGACCACATTCTAATAGCAGTGGGGTCTCTCCCTTTGGGACTCCAGCCTGCTCC
CGGGCACTCCAGCCAGCCTCTGCCCCCTCTCAGGTGTGGCAGCCGAGTCTTGACACTTGGCATCCCCGAGAGCAATC
TTGTGAACCTCAGCACTTGTTCGGCAGCAGCTGGAATTGATTTCGTTTACAGATGGAGCAATGCAGCTTCAGAAATGG
AGCCATCTGCCACCATCCTGCTGCTTTTGGTCTTCACTGCCCATCTTAGAGCCAGCACAGTGGATCAGCATCTT
GAACAGTAATGAACACCTTCTGAAGGAAAAAGAGCTTCTCATTGACAAGCAGAGGAAACACATCTCTCAGCTGGA
GCAGAAAGTGCAGAGAGAGCGAAGTGCAGTCCACAGTGCCTCTTGGGCCGCCCTGCCCCCTTTGGTGATGTCTG
CTTGCTGAGGGCTACAGGAATTGCAGCGAGAAAACACTTTCTTACGTGCACAGTTTGACAGAGACAGAAAGCCTT
GAGCAGAGAAAAGATTGACCTTGAAGAAAACCTCTCTGCTTCTGAAGTTGAAGTCCAGCTCATCAGAGAGTCGCT
CAAAGTGGCGTTGCAGAAGCATTCTGAGGAAGTGAAGAAACAGGAAGAAAGGGTCAAAGGTCGTGATAAACATAT
CAATAATTTGAAAAAGAAATGCCAGAAGGAATCAGAGCAGAAACCGGGAGAGCAGCAGCGTATTGAGACCTTGGA
GCGCTACCTGGCTGACCTGCCCCACTGGAAGACCATCAGAAGCAGAGCCAGCAGCTTAAGGATCTGAGTTGAA
GAGCACAGAGCTGCAGGAGAAAGTGAAGTGAAGTGTGCTGGAGGAGACCCAGGCAATCTGCAGAGAGAA
GGAGATTCAACTGGAAGCCTGAGGCAGAGAGAAGCAGAATTCTCTCCGCTGGACATAGCCTGCAAGATAAACA
GTCTGTGGAGGAGACCAGTGGAGAAGGTCCAGAAGTGGAAATGGAGTCTTGGCAGAAGCGATACGATTGCTCCA
AAAGATTGTGGAGAAGCAGCAGCAGAGAAGATGGATCAGTTGCGCTCACAAAGTACAGAGCCTAGAGCAGGAAGTGGC
TCAAGAAGAAGGAACAGCCAGGCCCTGAGAGAGGAGGCCAGCGAAGGGATTACGCCCTGCAGCAGCTGCGCAC
AGCCGTGAAGGAGCTTTCAGTGCAAAACCAGGACTTGATTGAGAAGAATCTGACACTCCAGGAACACCTGCGCCA
GGCCCAACCAGGGTCTCCACCTTACCAGACACGGCCAGCTGGCACTTGAGCTGCACCAGGAGTTGGCCAGTTG
CCTTCAAGATCTGCAGGCTGTCTGTAGCATTGTGACCCAGAGGGCCAGGGCCATGACCCCAATCTCTCCCTGCT
CCTGGGCATTCACTCACAGCACCCAGAGACTCAGCTAGATTGTCAGAAGCCAGATGTGATCAAGAGGAAACTAGA
AGAGGTTCAACAGCTGCGTCGTGACATTGAGGACTTAAGGACCACCATGTGACAGAGATATGCCAGGACATGGG
AGAAAACCTGTGTACACAGTGAAGGAATTCTGGGGGATTCCCCAGGGAGGAGCTGGGCTGCTGAGAGCCTAGTCC
AGCAGGTTTCTGCCCTGACATTCTTGTCTGCTATTCCAGAGAGGTCTCAGAGGGGAGGGGAGAGCCTGCATC
TGGGGGCCAAGGGCTGATTAGGGAACGTGTCTTACCACACTGGCATGTTGGATTACGTTTGTCTGTTAATTC
ACTCTCGACGGTGAGTTACTAATTAACCTTTTGGCAGGTACAACAGATAAGTCTCACAACACTGTTCCAGCCCTA
GGCTGACATGAGAGACGAACAGGCTGTCCACCTTCTTCTCCATCCAATGGGATGGATCCATGTTTATTCCCACT
TCACACCTTGGTCTCTGCTGATTAGAGAGCTCATCAGAGGGGCTGGAAAGGCTGAGCAAGTACCAGTGACAATGG
CCATTTAAGAATTCTCAGGCCCATGTGCCAGCCTTCTTGGGAAGTGAAGTCTGAGCTGGCTTCTGGGTTTTCTCATGCCT
GGTCTTACTGCTTCTTCTCAGGGCTCTTGTCTCCAGAGCCTCAGGGTAATGTGTTGGTTAGCACGTAACATA
CTAGGATTGGGGCCCTAGGGATTATAGCCAGGACTCTAATCTGCCTACCATGCCATTAAACAAGAGATCCCACTC
TCCAGCTGCCTTGTGTCCCTAGGGTCTTGGCCATGTGTTTAGTGTGCTAAACTTTCTCCTTTGTTCTCAGGCCTT
CCAGGTAGTCCCCTTCTGGACTTAAGAGTGCAAACTCTTCTGTGTTCTAGCCTTGGGCAGAAATATATCCC
AGAGACCACAGAGCAACTGTCAAGCTGCTTACCCCTCACCAGGGCTACAGCCTGTGCCAGCCCTCTAATTTG
TGCTCTCTTGTGTTGGGGGTGGTGGGGGTTATCCTTTCCCTTCTGCTCTGGCCTCCTTGAAAGTTTCAGAGT
ACCCAGTACAAGTCAGCCACCATGCTGACGGGTATTTTCTCTATAAAGTTTATAACCAGTTATTTATATGAATC
TTTGTATGTCCATTTGTTGTATTGCGTATTTTGATTATAAAATAAAGTATCTTAACAG

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FIGURE 108

MAMQEKYPTEGISHVTSPSSDVIQKGSSLGTEWQTPVISEPFRSRFSRCSSVADSGDTAIGTSCSDIAEDFCSSS
GSPPFQPIKSHVTIPTAHVMPSTLGTSPAKPNSTPVGPSSSKLPLSGLAESVGMTRNGDLGAMKHSPGLSRDLMY
FSGATGENGIEQSWFPAVGHERQEEARKFDIPSMESTLNQSAMMETLYSDPHHRVRFHNPRTSTSKELYRVLPEA
KKAPGSGAVFERNGPHSNSSGVLPLGLQPAPGHSSQPLPSQVWQPSPDTHWPREQSCELSTCRQQLELIRLQMEQ
MQLQNGAICHHPAAFGPSLPILEPAQWISILNSNEHLLKEKELLIDKQRKHISQLEQKVRESELQVHSALLGRPA
PFGDVCLLRLQELQRENTFLRAQFAQKTEALSREKIDLEKKLSASEVEVQLIRESLKVALQKHSEEVKKQEERVK
GRDKHINNKKKCQKESEQNREKQQRIETLERYLADLPTLEDHQKQSQQKDSSELKSTELQEKVTELESLEETQ
AICREKEIQLESLRQREAEFSSAGHSLODKQSVEETSGEGPEVEMESWQKRYDSLQKIVEKQQKMDQLRSQVQS
LEQEVAQEEGTSQALREEAQRRDSALQQLRTAVKELSVQNODLIEKNLTLOEHLRQAQPGSPSPDTAQLALELH
QELASCLQDLQAVCSIVTQRAQGHDPNLSLLLGIHSQHPETQLDLQKPDVIKRLKEEVQQLRRDIEDLRTTMSDR
YAQDMGENCVTQ

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FIGURE 109

GTAGCAGCTTCTTCTCCGAACCAACCCCTTTGCCCTTCGGACTTCTCCGGGGCCAGCAGCCGCCCGACCAGGGGGCCC
GGGGCCACGGGCTCAGCCGACGACCATGGGCTCCGTGTCCAACCAGCAGTTTGCAGGTGGCTGCGCCAAGGCGGC
AGAAGAGGCGCCCGAGGAGGCGCCGGAGGACGCGGCCCGGGCGCGGACGAGCCTCAGCTGCTGCACGGTGCGGG
CATCTGTAAGTGGTTCAACGTGCGCATGGGGTTCGGCTTCCTGTCCATGACCGCCGCGCCGGGGTTCGCGCTCGA
CCCCCAGTGGATGTCTTTGTGCACCAGAGTAAGCTGCACATGGAAGGGTTCCGGAGCTTGAAGGAGGGTGAGGC
AGTGGAGTTCACCTTTAAGAAGTCAGCCAAGGGTCTGGAATCCATCCGTGTACCGGACCTGGTGGAGTATTCTG
TATTGGGAGTGAGAGGCGGCCAAAAGGAAAGAGCATGCAGAAGCGCAGATCAAAAGGAGACAGGTGCTACAACCTG
TGGAGGTCTAGATCATCATGCCAAGGAATGCAAGCTGCCACCCAGCCCAAGAAGTGCCACTTCTGCCAGAGCAT
CAGCCATATGGTAGCCTCATGTCCGCTGAAGGCCAGCAGGGCCCTAGTGCACAGGGAAAGCCAACCTACTTTTCG
AGAGGAAGAAGAAGAAATCCACAGCCCTACCTGCTCCCGAGGCACAGAATTGAGCCACAATGGTGGGGGCTA
TTCTTTTGTATCAGGAAGTTTGTAGGAGCAGGCAGAGTGGAGAAAGTGGGAATAGGGTGCATTGGGGCTAGTTG
GCACCTGCCATGTATCTCAGGCTTGGGTTTACACCATCACCTTTCTTCCCTCTAGGTGGGGGGAAAGGGTGAGTC
AAAGGAACCTCAACCATGCTCTGTCCAAATGCAAGTGAGGGTTCTGGGGGCAACCAGGAGGGGGGAATCACCTTA
CAACCTGCATACTTTGAGTCTCCATCCCAGAAATTTCCAGCTTTTGAAAGTGGCCTGGATAGGGAAGTTGTTTTTC
CTTTTAAAGAAGGATATATAATAATTCCCATGCCAGAGTGAATGATTAAAGTATAAGACCAGATTTCATGGAGCCA
AGCCACTACATTCTGTGGAAGGAGATCTCTCAGGAGTAAGCATTGTTTTTTTTTTCACATCTTGTATCCTCATACC
CACTTTTGGGATAGGGTGTGTCAGCTGTCCCAAGCAATGGGTAAATGATGATGGCAAAAAGGGTGTTTGGGGGAA
CAGCTGCAGACCTGCTGCTCTATGCTCACCCCGCCCCATTCTGGGCCAATGTGATTTTATTTATTTGCTCCCTT
GGATACTGCACCTTGGGTCCCACTTTCTCCAGGATGCCAACTGCACTAGCTGTGTGCGAATGACGTATCTTGTGC
ATTTTAACTTTTTTTCCTTAATATAAATATTCTGGTTTTGTATTTTGTATATTTTAACTAAGGCCCTCATTTTC
CTGCACTGTGTTCTCAGGTACATGAGCAATCTCAGGGATAGCCAGCAGCAGCTCCAGGTCTGCGCAGCAGGAATT
ACTTTTTGTGTTTTTGGCACCGTGAGAGCAACTATTTGGAGTGCACAGCCTATTGAACTACCTCATTTTTGCC
AATAAGAGCTGGCTTTTCTGCCATAGTGCTCTTGAACCCCTCTGCCTTGAAATGTTTTATGGGAGACTAG
GTTTTAACTGGGTGGCCCCATGACTTGATTGCCTTCTACTGGAAGATTGGGAATTAGTCTAAACAGGAAATGGTG
GTACACAGAGGCTAGGAGAGGCTGGGCCCGGTGAAAAGGCCAGAGAGCAAGCCAAGATTAGGTGAGGGTTGTCTA
ATCCTATGGCACAGGACGTGCTTTACATCTCCAGATCTGTTCTTACCAGATTAGGTAGGCCTACCATGTGCCA
CAGGGTGTGTGTGTTTGTAAAAGTAGAGTTGCTAAGGATAAGTTTAAAGACCAATACCCCTGTACTTAATCCT
GTGCTGTGCGAGGGATGGATATATGAAGTAAGGTGAGATCCTTAACCTTTCAAATTTTCGGGTTCAGGGAGACA
CACAAGCGAGGGTTTTGTGGTGCCTGGAGCCTGTGCTCTGCCCTGCTACAGTAGTGATTAATAGTGTATGGTAG
CTAAAGGAGAAAAAGGGGGTTTTCGTTTACACGCTGTGAGATCACCGCAAACCTACCTTACTGTGTGAAACGGGA
CAAATGCAATAGAACGCATTGGGTGGTGTGTCTGATCCTGGGTCTTGTCTCCCTAAATGCTGCCCCCAAG
TTACTGTATTGTCTGGGCTTTGTAGGACTTCACTACGTTGATTGCTAGGTGGCCTAGTTTGTGTAAATATAATG
TATTGGTCTTTCTCCGTGTTCTTTGGGGGTTTTGTTTACAACTTCTTTTGTATTGAGAGAAAAATAGCCAAAG
CATCTTTGACAGAAGGTTCTGCACCAGGCAAAAAGATCTGAAACATTAGTTTGGGGGGCCCTCTTCTTAAAGTGG
GGATCTTGAACCATCCTTTCTTTGTATTCCCTTCCCTATTACCTATTAGACCAGATCTTCTGTCTTAAAAAC
TTGTCTTCTACCTGCCCTCTTTTCTGTTTACCCCCAAAAGAAAAGTTACACACCCACACACATACACATTTCAT
GCTTGGAGTGTCTCCCAACTCTTAAATGATGTATGCAAAAATACTGAAGCTAGGAAAACCTCCATCCCTTGTT
CCCAACCTCCTAAGTCAAGACCATTACATTTCTTCTTTCTTTTTTTTTTTTTTAAAAATGGAGTCTCACTGT
GTCACCCAGGCAGAGGTTGCAGTGAGCTGAGATCGCACCCTGCACTCCAGCCTGGTTACAGAGCAAGACTCTGT
CTCAAAACAAAACAAAACAAAACAAAACACACTACTGTATTTGGATGGATCAAACCTCCTTAATTTTAAATTTCT
AATCCTAAAGTAAAGAGATGCAATTGGGGGCCTTCCATGTAGAAAGTGGGGTCAGGAGGC'AAGAAAGGGAATAT
GAATGTATATCCAAGTCACTCAGGAACTTTTATGCAAGTGCTAGAACTTTATGTCAAAGTGGCCACAAGATTGT
TTAATAGGAGACGAACGAATGTAACCTCATGTTTACTGCTAAAAACCAAAGCTTTGTGTAAAATCTTGAATTTAT
GGGGCGGGAGGGTAGGAAAGCCTGTACCTGTCTGTTTTTCTGATCCTTTTCCCTCATTCTGAACTGCAGGA
GACTGAGCCCTTTGGGCTTTGGTGACCCCATCACTGGGGTGTGTTTATTGATGGTTGATTTTGTGTACTGGG
TACTTCCTTTCCATTTTCTAATCATTTTTTAACACAAGCTGACTCTCCCTTCCCTTCTCCTTTCCCTGGGAAA
ATACAATGAATAAATAAAGACTTATTGGTACGC

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FIGURE 110

GAGCAGTGTGAAGAAGAGGCGAGAACGACCCCCGACCGACCAAAGCCCCGCGCGCGCTGCATCCCGCGTCCAGC
ACCTACGTCCCGCTGCCGTCGCCGCCGCCACCAATGCCCAAGAGAAAGGCTGAAGGGGATGCTAAGGGAGATAAAG
CAAAGGTGAAGGACGAACACAGAGAAGATCCGCGAGGTTGTCTGCTAAACCTGCTCCTCCAAAGCCAGAGCCCA
AGCCTAAAAAGGCCCTGCAAAGAAGGGAGAGAAGGTACCCAAAGGGAAAAAGGGAAAAGCTGATGCTGGCAAGG
AGGGGAATAACCCTGCAGAAAATGGAGATGCCAAAACAGACCAGGCACAGAAAGCTGAAGGTGCTGGAGATGCCA
AGTGAAGTGTGTGCATTTTGTATACTGTGTACTTCTGGTGACTGTACAGTTTGAAATACTATTTTTATCAAGT
TTTATAAAAATGCAGAAATTTGTTTTACTTTTTTTTTTTTTTTTAAAGCTATGTTGTTAGCACACAGAACTTC
ATTGTTGTTTTTGGGGGAAGGGGCATATGTCATAATAGAATGTCCTCAAAGCTGGATTGATGTGGAGAAAACAC
CTTCCCTTCTAGTTTTTGAGAGACTTCTCTTGGCTCCAGGAGGAGGATTCCCTGACTTTGACACACATGGCC
ACCTTGGCACAAAAGCCTTGTGGTATAGAAAAACAAATTTGTTTTATGTCTCTTCTCCCTTCCATCTTTCAG
CATAGACTTAACCTCCCTAAGCCCAGACATCTGTTGAGACCTGACCCCTAGTCATTGGTTACCAGTGTGTCAGGC
AATCTGGACTTTCCAGTGATGCCACTGAGATGGCACCTGTCAAAGAGCAGTGGTTCCATTTCTAGATTGTGGAT
CTTCAGATAAATTCTGCCATTTTCATTTCACTTCTGAAAGTCAGGGTCGGCTTGTGAAAAGTTGTTAAACAACA
TGCTAAATGTGAAATGTCAACCCTCACTCTAAACTTTCCCTGTTTCAGAGCATCAGATGAAGACTTCATTGGGTTT
TATAGTGGCTTTCTGATTTTTTGGTAGTCCATTGAAGAAGGGAGTTTGAAAGTTGTTGTATACTGTTAACGATTGT
CTGCCCATGTCCTGCCTGAAATACCATGATTGTTTATGGAAAGTATCTTTAATAAAGCTGGATACAGTTTGGC

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FIGURE 111

MPKRKAEGDAKGDKAKVKDEPQRRSARLSAKPAPPKPEPKPKKAPAKKGEKVPKGKKGKADAGKEGNNPAENGDA
KTDQAQKAEGAGDAK

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FIGURE 112A

GAAAGCGGAGAGTCACAGCGGGGCCAGGCCCTGGGGAGCGGAGCCTCCACCGCCCCCTCATTCCCAGGCAAGGG
CTTGGGGGGAATGAGCCGGGAGAGCCGGGTCCCGAGCCTACAGAGCCGGGAGCAGCTGAGCCGCCGGCGCCTCGG
CCGCCGCCGCCCTCCTCCTCCTCCGCCGCCGCCAGCCCGGAGCCTGAGCCGGCGGGGCGGGGGGAGAGGAGC
GAGCGCAGCGCAGCAGCGGAGCCCCGCGAGGCCCGCCGGGCGGGTGGGGAGGGCAGCCCGGGGACTGGGCCCC
GGGGCGGGGTGGGAGGGGGGAGAAAXX
XXTCGAGGCGCGGCTGCGGCAGCGGC
CGAGCGCGGTGGAATGAAGGCAGCCGCCGGGCAGAAAGCGAGGGCCCCGCCGTGGGGCCGCCGCATCCGCTGG
GAAAGGAGCTGCTGGACGGGGCCGAGAGCAATGGGGGTGGCGGCGCGGCGGAGCCGGCAGCGGCGGGGCCG
GCGCGGAGCCGACCTGAAGAACTCGAACGGGAACGCGGGCCCTAGGCCCGCCCTGAACAATAACCTTACGGAGC
CGCCCCGGCGGCGCGGTGGCGGCAGCAGCGATGGGGTGGGGGCGCCTCCTCACTCAGCCGCGGCCGCTTGCCGC
CCCCAGCCTACGGCTTCGGGCAACCCTACGGCCGAGCCCCGTCTGCCGTGCGCGCCGCCGCGGCCGCGCTTCC
ACCAACAACATGGCGGACAACAAGCCCTGGCCTGGCAGCGCTGCAGAGCGGCGGCGGGGGCCTGGAGCCCT
ACGCGGGGCCCCAGCAGAACTCTACGACCACGGCTTCCCCAACCACCAGTACAACCTTACTACCCCAACCGCA
GCGCCTACCCCCCGCCGCCCGCCCTACGCGCTGAGCTCCCCGAGAGGTGGCACTCCGGGCTCCGGCGCGCGG
CGGCTGCCGGCTCCAAGCCGCTCCCTCCTCCAGCGCTCCGCTCCTCGTCTGCTTCTGCTCCTTCGCTCAGCAGC
GCTTCGGGGCCATGGGGGGAGGCGGCCCTCCGCGCGCGGCGGGGAACTCCCCAGCCACCGCCACCC'CAACC
TC'ACCAACTGCTCACGTCGCCAGCTCGGCCCGGGCTACAGGGCTACCCCGGGGGCGACTACAGTGGCGGGC
CCCAGGACGGGGGCGCCGGCAAGGGCCCGGCGGACATGGCCTCGCAGTGTGGGGGGCTGCGGCGGCGGCAGCTG
CGGCGGCGGCGCCTCGGGAGGGGCCCAACAAAGGAGCCACCACGCGCCATGAGCCCCGGGAGCAGCGGCGGCG
GGGGGAGCCGCTCGCCCCGACCCCTCAGCCATCCAGTCCAATGGATCAGATGGGCAAGATGAGACCTCAGCCAT
ATGGCGGGACTAACCATACTCGCAGCAACAGGGACCTCCGTCAGGACCGCAGCAAGGACATGGGTACCCAGGGC
AGCCATACGGGTCCCAGACCCCGCAGCGGTACCCGATGACCATGACGGGCGGGCGCAGAGTGCCATGGCGGGC
TCTCTTATACACAGCAGATTCTCCTTATGGACAACAAGGCCCCAGCGGGTATGGTCAACAGGGCCAGACTCCAT
ATTACAACCAGCAAAGTCCTCACCCTCAGCAGCAGCAGCCACCCTACTCCCAGCAACCACCGTCCCAGACCCCTC
ATGCCCCAACC'TTCGTATCAGCAGCAGCCACAGTCTCAACCACCACAGCTCCAGTCTCTCAGCCTCCATACTCCC
AGCAGCCATCCCAGCCTCCACATCAGCAGTCCCCGGCTCCATACCCCTCCCAGCAGTCGACGACACAGCAGCACC
CCCAGAGCCAGCCCCCTACTCACAGCCACAGGCTCAGTCTCCTTACCAGCAGCAGCAACCTCAGCAGCCAGCAC
CCTCGACGCTCTCCAGCAGGCTGCGTATCCTCAGCCCCAGTCTCAGCAGTCCCAGCAAAGTGCCTATTCCAGC
AGCGCTTCCCTCCACCGCAGGAGCTATCTCAAGATTCAATTGGGTCTCAGGCATCCTCAGCCCCCTCAATGACCT
CCAGTAAGGGAGGGCAAGAAGATATGAACCTGAGCCTTCAGTCAAGACCCTCCAGCTTGCCTGATCTATCTGGTT
CAATAGATGACCTCCCCATGGGGACAGAAGGAGCTCTGAGTCTGGAGTGAGCACATCAGGGATTTCAGCAGCC
AAGGAGAGCAGAGTAATCCAGCTCAGTCTCCTTCTCTCTCCTACCTCCCCTCACCTGCCTGGCATCCGAGGCC
CTTCCCGTCCCCTGTTGGCTCTCCCGCCAGTGTGCTCAGTCTCGCTCAGGACCACTCTCGCTGCTGCACTGC
CAGGCAACCAGATGCCACCTCGGCCACCCAGTGGCCAGTGGGACAGCATCATGCATCCTTCCATGAACCAATCAA
GCATTGCCCAAGATCGAGGTTATATGCAGAGGAACCCCCAGATGCCCCAGTACAGTTCCCCCAGCCCGGCTCAG
CCTTATCTCCGCGTCAGCCTTCCGGAGGACAGATACACACAGGCATGGGCTCCTACCAGCAGAACTCCATGGGGA
GCTATGGTGCC'AGGGGGGTCAGTATGGCCCAAGGTGGCTACCCAGGCAGCCAAACTATAATGCCTTGCCCA
ATGCCAACTACCCAGTGCAGGCATGGCTGGAGGCATAAACCCCATGGGTGCCGGAGGTCAAATGCATGGACAGC
CTGGCATCCCACCTTATGGCACACTCCCTCCAGGGAGGATGAGTCACGCCTCCATGGGCAACCGGCCTTATGGCC
CTAACATGGCCAATATGCCACCTCAGGTTGGGTGAGGATGTGTCCCCCACCAGGGGGCATGAACCGGAAAACCC
AAGAAACTGCTGTGCCATGCATGTTGCTGCCAACTCTATCCAAAACAGGCCGCCAGGCTACCCCAATATGAATC
AAGGGGGCATGATGGGAACTGGACCTCCTTATGGACAAGGGATTAATAGTATGGCTGGCATGATCAACCCTCAGG
GACCCCATATTCCATGGGTGGAACCATGGCCAACAATTCTGCAGGGATGGCAGCCAGCCAGAGATGATGGGCC
TTGGGGATGTAAAGTTAACTCCAGCCACCAAAATGAACAACAAGGCAGATGGGACACCAAGACAGAATCCAAAT
CCAAGAAATCCAGTTCTTCTACTACAACCAATGAGAAGATACCAAGTTGTATGAGCTGGGTGGTGAGCCTGAGA
GGAAGATGTGGGTGGACCGTTATCTGCCTTCACTGAGGAGAAGGCCATGGGCATGACAAATCTGCCTGCTGTGG
GTAGGAAACCTCTGGACCTCTATCGCCTCTATGTGTCTGTGAAGGAGATTGGTGGATTGACTCAGGTCAACAAGA
ACAAAAATGGCGGGA'ACTTGCAACCAACCTCAATGTGGGCACATCAAGCAGTGTGCCAGCTCCTTGAAAAAGC

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FIGURE 112B

AGTATATCCAGTGTCTCTATGCCTTTGAATGCAAGATTGAACGGGGAGAAGACCCTCCCCAGACATCTTTGCAG
CTGCTGATTCCAAGAAGTCCCAGCCCAAGATCCAGCCTCCTCTCCTGCGGGATCAGGATCTATGCAGGGGGCCCC
AGACTCCCCAGTCAACCAGCAGTTCCATGGCAGAAGGAGGAGACTTAAAGCCACCAACTCCAGCATCCACACCAC
ACAGTCAGATCCCCCAATTGCCAGGCATGAGCAGGAGCAATTCAGTTGGGATCCAGGATGCCTTTAATGATGGAA
GTGACTCCACATTCCAGAAGCGGAATTCATGACTCCAAACCCTGGGTATCAGCCCAGTATGAATACCTCTGACA
TGATGGGGCGCATGTCTATGAGCCAAATAAGGATCCTTATGGCAGCATGAGGAAAGCTCCAGGGAGTGATCCCT
TCATGTCTCAGGGCAGGGCCCCAACGGCGGGATGGGTGACCCCTACAGTCGTGCTGCCGGCCCTGGGGCTAGGAA
ATGTGGCGATGGGACCAGCAGCACTATCCCTATGGAGTCTTATGACAGAGTGAGGACGGAGCCTGGAATAG
GGCCTGAGGGAAACATGAGCACTGGGGCCCCACAGCCGAATCTCATGCCTTCCAACCCAGACTCGGGGATGTATT
CTCCTAGCCGCTACCCCCCGCAGCAGCAGCAGCAGCAGCAGCAACGACATGATTCTATGGCAATCAGTTCTCCA
CCCAAGGCACCCCTTCTGGCAGCCCTTCCCCAGCCAGCAGACTACAATGTATCAACAGCAACAGCAGAATTACA
AGCGGCCAATGGATGGCACATATGGCCCTCCTGCCAAGCGGCACGAAGGGGAGATGTACAGCGTGCCATACAGCA
CTGGGCAGGGGCAGCTCAGCAGCAGCAGTTGCCCCAGCCAGCCCCAGCCTGCCAGCCAGCAACAAGCTGCCC
AGCCTTCCCCTCAGCAAGATGTATACAACCAAGTATGGCAATGCCTATCCTGCCACTGCCACAGCTGCTACTGAGC
GCCGACCAGCAGGGCGGGCCCCCAGAACCAATTTCCATTCCAGTTTGGCCGAGACCGTGTCTCTGCACCCCTGGCA
CCAATGCCCAGCAAAACATGCCACCACAAATGATGGGCGGGCCCATACAGGCATCAGCTGAGGTTGCTCAGCAAG
GCACCATGTGGCAGGGGCGTAATGACATGACCTATAATTATGCCAACAGGCAGAGCAGGGGCTCTGCCCCCAGG
GCCCCGCTATCATGGCGTGAACCGAACAGATGAAATGCTGCACACAGATCAGAGGGCCAACCAAGGCTCGT
GGCCTTCCCCTGGCACACGCCAGCCCCCATATGGTCCCTCTGCCCCCTGTGCCCCCATGACAAGGCCCCCTCCAT
CTAACTACCAGCCCCCACCAGCATGCAGAATCACATTCTCAGGTATCCAGCCCTGCTCCCTGCCCCGGCCAA
TGGAGAACCGCACCTCTCCTAGCAAGTCTCCATTCTGCACTCTGGGATGAAATGCAGAAGGCAGGTCCCCCAG
TACCTGCCTCGCACATAGCACCTGCCCCGTGTCAGCCCCCATGATTGCGCGGGATATCACCTTCCCACCTGGCT
CTGTTGAAGCCACACAGCCTGTGTTGAAGCAGAGGAGGCGGCTCACAATGAAAGACATTGGAACCCCGGAGGCAT
GGCGGGTAATGATGTCCCTCAAGTCTGGTCTCCTGGCAGAGAGCACATGGGCATTAGATACCATCAACATCCTGC
TGATATGATGACAACAGCATCATGACCTTCAACCTCAGTCAGCTCCCAGGGTTGCTAGAGCTCCTTGTAAGTATT
TCCGACGATGCCTGATTGAGATCTTTGGCATTTTAAAGGAGTATGAGGTGGGTGACCCAGGACAGAGAACGCTAC
TGGATCCTGGGAGGTTAGCAAGGTGTCTAGTCCAGCTCCCATGGAGGTTGGGGAAGAAGAAGAAGAACTTCTAG
GTCTAAACTAGAAAGAGGAAGAAGAAGAGGAAGTAGTTGAAATGATGAGGAGATAGCCTTTTCAGGCAAGGACA
AGCCAGCTTCAGAGAATAGTGAGGAGAAGCTGATCAGTAAGTTTGACAAGCTTCCAGTAAAGATCGTACAGAAGA
ATGATCCATTTGTGGTGGACTGCTCAGATAAGCTTGGGCGTGTGCAGGAGTTTGACAGTGGCCTGCTGCACTGGC
GGATTGGTGGGGGGACACCACTGAGCATATCCAGACCCACTTCGAGAGCAAGACAGAGCTGCTGCCCTTCCCGGC
CTCAGCACCCCTGCCCCACCAGCCCCCTCGGAAGCATGTGACAACAGCAGAGGGTACACCAGGGACAACAGACCAGG
AGGGGCCCCCACCTGATGGACCTCCAGAAAACGGATCACAGCCACTATGGATGACATGTTGTCTACTCGGTCTA
GCACCTTGACCGAGGATGGAGCTAAGAGTTCAGAGGCCATCAAGGAGAGCAGCAAGTTTCCATTTGGCATTAGCC
CAGCACAGAGCCACCGGAACATCAAGATCCTAGAGGACGAACCCACAGTAAGGATGAGACCCCACTGTGTACCC
TTCTGGACTGGCAGGATTCTCTTGCCAAGCGCTGCGTCTGTGTGTCCAATACCATTGGAAGCCTGTCAATTTGTGC
CAGGCAATGACTTTGAGATGTCCAAACACCCAGGGCTGCTGCTCATCTGGGCAAGCTGATCCTGCTGCACCACA
AGCACCCAGAACGGAAGCAGGCACCACTAAGTTATGAAAAGGAGGAGGAACAGGACCAAGGGGTGAGCTGCAACA
AAGTGGAGTGGTGGTGGGACTGCTTGGAGATGCTCCGGGAAAACACCTTGGTTACACTCGCCAACATCTCGGGGC
AGTTGGACCTATCTCATACCCCGAGAGCATTTGCCTGCCTGTCTGACGAGTCTTACACTGGGCAGTTTGCC
CTTCAGCTGAAGCCCAGGACCCCTTTTCCACCCTGGGCCCAATGCCGTCTTTCCCCGCAGAGACTGGTCTTGG
AAACCTCAGCAAACTCAGCATCCAGGACAACAATGTGGACCTGATTCTGGCCACACCCCCCTTCAGCCGCCTGG
AGAAGTTGTATAGCACTATGGTGGCTTCTCAGTGACCGAAAGAACCCGGTGTGCCGGGAGATGGCTGTGGTAC
TGCTGGCCAACCTGGCTCAGGGGGACAGCCTGGCAGCTCGTCCATTGCAAGTGCAGAAGGGCAGTATCGGCAACC,
TCCTGGGCTTCTTAGAGGACAGCCTTGGCGCCACACAGTTCCAGCAGAGCCAGGCCAGCCTCCTCCACATGCAGA
ACCCACCCCTTTGAGCCAACCTAGTGTGGACATGATGCGGCGGGCTGCCCGCGCGTGTGCTTGCCTTGGCCAAGGTGG
ACGAGAACCACTCAGAGTTTACTCTGTACGAATCACGGCTGTTGGACATCTCGGTATCACCGTTGATGAACCTCAT
TGGTTTCAAGTCAATTTGTGATGTACTGTTTTGATTGGCCAGTCATGACAGCCGTGGGACACCTCCCCCCCC

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FIGURE 112C

GTGTGTGTGTGCGTGTGTGGAGAACTTAGAACTGACTGTTGCCCTTTATTTATGCAAAACCACCTCAGAATCCA
GTTTACCCTGTGCTGTCCAGCTTCTCCCTTGGGAAAAAGTCTCTCCTGTTTCTCTCTCCTCCTTCCACCTCCCCT
CCCTCCATCACCTCACGCCTTTCTGTTCCCTTGTCTCACCTTACTCCCCTCAGGACCCTACCCACCCCTCTTTGA
AAAGACAAAGCTCTGCCTACATAGAAGACTTTTTTTATTTTAAACCAAAGTTACTGTTGTTTACAGTGAGTTTGGG
GAAAAAAAAATAAAATAAAATGGCTTTCCAGTCCTTGCATCAACGGGATGCCACATTCATAACTGTTTTAAT
GGTAAAAAAAAAAAAA

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FIGURE 113

CAACAATGTGGACCTGATTCTGGCCACACCCCCCTTCAGCCGCCTGGAGAAGTTGTATAGCACTATGGTGCGCTT
CCTCAGTGACCGAAAGAACCCGGTGTGCCGGGAGATGGCTGTGGTACTGCTGGCCAACCTGGCTCAGGGGGACAG
CCTGGCAGCTCGTGCCATTGCAGTGCAGAAGGGCAGTATCGGCAACCTCCTGGGCTTCCTAGAGGACAGCCTTGC
CGCCACACAGTTCCAGCAGAGCCAGGCCAGCCTCCTCCACATGCAGAACCCACCCCTTTGAGCCAAGTGTGGA
CATGATGCGGGCGGCTGCCCCGCGCTGCTTGCCCTTGCCCAAGGTGGACGAGAACCACCTCAGAGTTTACTCTGTA
CGAATCACGGCTGTTGGACATCTCGGTATCACCGTTGATGAACTCATTGGTTTCACAAGTCATTTGTGATGTACT
GTTTTTGATTGGCCAGTCATGACAGCCGTGGGACACCTCCCCCCCCCGTGTGTGTGTGCGTGTGTGGAGAACTTA
GAACTGACTGTTGCCCTTTATTTATGCAAAACCACCTCAGAATCCAGTTTACCCTGTGCTGTCCAGCTTCTCCC
TTGGGAAAAAGTCTCTCCTGTTTCTCTCTCCTCCTTCCACCTCCCCCTCCCTCCATCACCTCACGCCTTTCTGTTT
CTTGTCCTCACCTTACTCCCCCTCAGGACCCTACCCACCCCTCTTTGAAAAGACAAAGCTCTGCCTACATAGAAGA
CTTTTTTTATTTTAAACAAAGTTACTGTTGTTTACAGTGAGTTTGGGGAAAAAAAATAAAATAAAAATGGCTTTC
CCAGTCCTTGATCAACGGGATGCCACATTTATAACTGTTTTTAAATGGTAAAAAATAAATAAATAAATAAATAA
AAAAATTCTGAAGGACAAAAAAGGTGACTGCTGAACTGTGTGTGGTTTATTGTTGTACATTCACAATCTTGCAGG
AGCCAAGAAGTTCGCAGTTGTGAACAGACCCTGTTCACTGGAGAGGCCTGTGCAGTAGAGTGTAGACCCTTTTCAT
GTACTGTACTGTACACCTGATACTGTAAACATACTGTAAATAATAATGTCTCACATGGAAACAGAAAACGCTGGGT
CAGCAGCAAGCTGTAGTTTTTAAAAATGTTTTTGTAAACGTTGAGGAGAAAAAATAAAGGCTTTTCCCCCA
AAGTATCATGTGTGAACCTACAACACCCTGACCTCTTCTCTCCTCCTTGATTGTATGAATAACCCTGAGATCAC
CTCTTAGAAGTGTGTTTAAACCTTTAGCTGCAGCGGCTACGCTGCCACGTGTGTATATATATGACGTTGTACATTG
CACATACCCTTGATCCCCACAGTTTGGTCCTCCTCCAGCTACCCCTTTATAGTATGACGAGTTAACAAGTTGG
TGACCTGCACAAAGCGAGACACAGCTATTTAATCTCTTGCCAGATATCGCCCTCCTTGGTGCGATGCTGTACAGG
TCTCTGTAAAAAGTCTTGTCTCAGCAGCCAATCAACTTATAGTTTATTTTTTCTGGGTTTTGTGTTTGT
TTGTTTTCTTTCTAATCGAGGTGTGAAAAAGTTCTAGGTTTCAAGTTCTGATGAAGAAACACAATTGAGAT
TTTTTCAGTGATAAAATCTGCATATTTGTATTTCAACAATGTAGCTAAACTTGATGTAAATTCCTCCTTTTTTT
CCTTTTTTGGCTTAATGAATATCATTATTTCAGTATGAAATCTTTATACTATATGTTCCACGTGTTAAGAATAAA
TGATACATTAAATCTGGT

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FIGURE 114

[illegible]

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FIGURE 115

MERASLIQKAKLAEQAERYEDMAAFMKGAVEKGEELSCEERNLLSVAYKNVVGQRAAWRVLSSIEQKSNEEGSE
EKGPEVREYREKVELQGVCDTVLGLLDSHLIKEAGDAESRVFYLKMKGDYYRYLAEVATGDDKKRIIDSARSA
YQEAMDISKKEMPPTNPIRLGLALNFSVFHYEIANSPEEAISLAKTTFDEAMADLHTLSEDSYKDSTLIMQLLRD
NLTLWTADNAGEEGGEAPQEPQS

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FIGURE 116

CCGGAAGTCGAGTTAGTCTAGTTAGTATCGGCCTGTTATCTCCTTTTGC GCGACACGGTCTCAGCTGTTCCGCCT
GAGGCGAGTGACGCTGGCCGCCAACGAGGTATACGTACTGGGACCCTCGCCCTCAGTCTCGTCTCCGGCGCGGCT
ACCTGCCCCGTTTTCCCTGTGAGTTGACCTGCTCCGGGCGCGGGCCGCAATGGCAGGGGCGGCTCCGACCACG
GCCTTCGGGCAGGCGGTGACCGGCCCGCGGGCTCAGGGAAGACCACGTACTGCCTGGGCATGAGTGAGTTCCCTG
CGCGCGCTGGGCCGGCGCGTGGCGGTGGTGAACCTGGACCCGGCCAACGAGGGGCTGCCGTACGAGTGTCGGTG
GACGTGGGCGAGCTGGTGGGGCTGGGCGACGTGATGGACGCGCTGCGCCTGGGGCCCAACGGCGGCTGCTCTAC
TGCATGGAGTACCTGGAAGCCAACCTGGACTGGCTGCGTGCCAAGCTCGACCCCTCCGCGGCCACTACTTCCTC
TTCGACTGCCCAGGCCAGGTGGAGCTCTGCACGCATCAGGGCGCCTTGCGCAGCATCTTCTCCCAATGGCGCAG
TGGGACCTCAGGCTGACTGCCGTCCACCTCGTGGATTCTCACTACTGCACAGACCCTGCCAAGTTCATTTCAGTA
CTGTGTACCTCCCTGGCCACCATGCTGCACGTGGAAGTGGCCACATCAACCTCCTTTCCAAGATGGACCTCATT
GAGCATTATGGGAAGCTGGCCTTCAACCTGGACTACTACACAGAGGTTCTGGACCTCTCCTACCTGCTTGACCAC
CTGGCTTCTGACCCTTTCTTCCGCCACTACCGCCAGCTCAATGAGAAGCTAGTGAGCTCATCGAAGACTATAGC
CTGTCTCCTTTATCCCTCTCAACATCCAGGACAAGGAGAGCATCCAGCGAGTCCTGCAGGCTGTGGATAAAGCC
AATGGATACTGTTTCAGAGCCCAAGAGCAGCGAAGCTTGGGAAGCCATGATGTCTGCCGCAATGGGAGCCGACTTC
CATTCTCTTCCACACTGGGCATCCAGGAGAAGTACCTGGCACCCTCGAACCAGTCAGTGGAGCAGGAAGCCATG
CAGCTGTAGCAACAAGGTGGACCCTGGAGAGCAGGATGCATAATCCAGCACTGGGGAAAGTGGAGGCTCCTGATG
CAGGCTGCAGACCCAAGAGCAAGTCTCCAGCCAGAGCTGGCGGGCTGGCAAGGGATATTCAGCTCTGCAAAG
GACTTCTGGCCAAAAGCCAGACATGGTGCCAAGCAGAACACCCCCATACTGTGAGTGGTGTCCGTGAGCTCTG
GGCCCTGCCACCAGAAAGTCGAGCACTGGTCCTAGTCAGGCTGTGATGAAATGTGCTACAATACAAGAGTTTATT
TTCT

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FIGURE 117

MAGAAPTTAFGQAVTGPPGSGKTTYCLGMSEFLRALGRRVAVVNLDPANEGLPYECADVGVGLGDVMDALRL
GPNGGLLYCMEYLEANLDWLRAKLDPLRGHYFLFDCPGQVELCTHHGALRSIFSQMAQWDLRLTAVHLVDSHYCT
DPAKFISVLCTSLATMLHVELPHINLLSKMDLIEHYGKLAFNLDYYTEVLDLSYLLDHLASDPFFRHYRQLNEKL
VQLIEDYSLVSFIPLNIQDKESIQRVLQAVDKANGYCFRAQEQRSLEAMMSAAMGADFHFSSTLGIQEKYLAPSN
QSVEQEAMQL

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FIGURE 118

TAGAGTCGTTGGGCCCCGGCGGACCCGCAGGAGCGTAGAGAGCGCGGGACTAGAGTGCAGAGCTCCGGGACGTGG
ATCGGAGCCGGCGCGATGGGCGGAGAGCAGGAGGAGGAGCGGTTTCGACGGCATGTTGCTGGCCATGGCTCAGCAG
CACGAGGGCGGCGTGCAGGAGCTTGTGAACACCTTCTTCAGCTTCCTTCGACGCAAAACAGACTTTTTCATTGGA
GGAGAAGAAGGGATGGCAGAGAAGCTTATCACACAGACTTTCAGCCACCACAATCAGCTGGCACAGAAGACCCGG
CGGGAGAAGAGAGCCCCGGCAGGAGGCCGAGCGCGGGAGAAGCGGAGCGGGCGGCCAGACTGGCCAAGGAAGCC
AAGTCAGAGACCTCAGGGCCCCAGATCAAGGAGCTAACTGATGAAGAGGCAGAGAGGCTGCAGCTAGAGATTGAC
CAGAAAAAGGATGCAGAGAATCATGAGGCCAGCTCAAGAACGGCAGCCTTGACTCCCCAGGGAAGCAGGATACT
GAGGAAGATGAGGAGGAAGATGAGAAGGACAAAGGAAAACCTGAAGCCCAACCTAGGCAACGGGGCAGACCTGCCC
AATTACCGCTGGACCCAGACCCTGTTCGGAGCTGGACCTGGCGGTCCCTTTCTGTGTGAACCTCCGGCTGAAAGGG
AAGGACATGGTGGTGGACATCCAGCGGCGGCACCTCCGGGTGGGGCTCAAGGGGCAGCCAGCGATCATTGATGGG
GAGCTCTACAATGAAGTGAAGGTGGAGGAGAGCTCGTGGCTCATTGAGGACGGCAAGGTGGTACTGTGCATCTG
GAGAAGATCAATAAGATGGAGTGGTGGAGCCGCTTGGTGTCCAGTGACCCTGAGATCAACACCAAGAAGATTAAAC
CCTGAGAATTCCAAGCTGTCAGACCTGGACAGTGAGACTCGCAGCATGGTGGAAAAGATGATGTATGACCAGCGA
CAGAAGTCCATGGGGCTGCCAACTTCAGACGAACAGAAGAAACAGGAGATTCTGAAGAAGTTCATGGATCAACAT
CCGGAGATGGATTTTTCCAAGGCTAAATTCAACTAGCCCTGTTTTTTCCTCCCTGAACTCTTGGGGCTGAGCTG
CAACCACCAACTTTCTTCCCACTCTTCTCTGGGACTTGTGGGCCTCAGGGCTTGGGGCAGGCATGGGACTGGC
CCAGGCACACAGGTCCCGGGGCATCAGGAGAAAGGCTGGGTCTTGGGACCTTGTCCTCCCCAGTTGGCCTACTGT
TACACATTAAACGATTGCCCCAGCTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 119

MGGEQEEERFDGMLLAMAQQHEGGVQELVNTFFSFLRRKTDFFIGGEEGMAEKLITQTFSHHNQLAQKTRREKRA
RQEAERREKAERAARLAKEAKSETSGPQIKELTDEEAERLQLEIDQKKDAENHEAQLKNGSLDSPGKQDTEEDEE
EDEKDKGKCLKPNLGNLADLPNYRWTQTLSELDLAVPFCVNFRLKGKDMVVDIQRRLRVGLKGQPAIIDGELYNE
VKVEESSWLIEDGKVTVHLEKINKMEWWSRLVSSDPEINTKKINPENSKLSLDLSETRSMVEKMMYDQRQKSMG
LPTSDEQKKQEILKKFMDQHPMDFSKAKFN

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FIGURE 120

CCTGGTATGATTCCATCCTGAGCGGCTGTTCTCTTGAGCAGCGTTCATTTATCTCCGTCTGCCTTCTGTCCCACC
TAAGTGTGTGCCGCCACCCAATAGAAAGATTCGATGGACATGGACATGAGCCCCCTGAGGCCCCAGAACTATCTTT
TCGGTTGTGAACTAAAGGCTGACAAAGATGATCACTTTAAGGTGGATAATGATGAAAATGAGCACCAGTTATCTT
TAAGAACGGTCAGTTTAGGGGCTGGTACAAAGGATGAATTGCACATTGTTGAAGCAGAGGCAATGAATTACAAAG
GCAGTCCAATTAAAGTAACACTGGCAACTTTGAAAATGTCTGCACAGCCAACAGTTTCCCTTGGGGGCTTTGAAA
TAACACCACCAGTGGTCTTAAGATTTAAGTGTGGTTCAGGGCCAGTGCATATTAGTGGACAGCACTTAGTAGCTG
TGGAGGAAGATGCAGAGTCAGAAGATGAAGAGGAGGAGGATGTGAACTCTTAAGTATATCTGGAAAGCGGTCTG
CCCCTGGAGGTGGTAGCAAGGTTCCACAGAAAAAGTAAACTTGCTGTTGATGAAGATGATGATGATGATGATG
ATGATGATGATGATGATTTTGATGATGAGGAAGCTGAAGAAAAAGTGCCAGTGAAGAAAGGACAAGAATCCTTCA
AAACACAGGAAAAAACTCCTAAACACCAAAAGGATCTAGTTCTGTAGAAGACATTAAAGCAAAAATGCAAGCAA
GTATAGAAAAAGGGGGTTCTCTCCCAAAGTGGAAGCCGAGTTCATCAATTTTGTGAAGAATTGCTTCTGGATGA
CTGACCAAGAGGCTATTCAAGATCTCTGGCAGTGGAGGAAGTCTCCTTAAGAAAAATAGTTTCAACAATTTGTTAA
AAATTTTCCATCATATTTCAATTTCTGTAAACAGTTGATATCTGGCTGTCCTTTTATAATGCAGAGTGAGAACTTT
CCCTACCGTGTTTGATAAATGTTGTCCAGGTTCCATTGCCAAGAATGTGTTGTCCAAAATGCCTGTTTAGTTTTT
AAAGATGGAACACCCCTTGCTTGGTTTTAAATATGTATGGAATGTTATGATAGGACATAGTAGTAGCGGTGGT
CAGACATGGAAATTGTGGGAAGACAAAAATATGCCTGTGAATAAACTCAATATTTAATAAAGTAAAAAAA
AAAAAA

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FIGURE 121

MDMDMSPLRPQNYLFGCELKADKDDHFKVDNDENEHQLSLRTVSLGAGTKDELHIVEAEAMNYKGSPiKVTLATL
KMSAQPTVSLGGFEITPPVVLRFKCGSGPVHISGQHLVAVEEDAEESEDEEEEDVKLLSISGKRSAPGGGSKVPQK
KVKLAVDEDDDDDDDDDDDFDDEEAEEKVPVKKQGESFKTQEKTPKTPKGSSSVEDIKAKMQASIEKGGSIPKV
EAEIFINVKNCFWMTDQEAIQDLWQWRKSP

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FIGURE 122

AGCTGCTGGCTGGGCTGCCTGTTGAGTCAGCCTTCTTCCCTCACGGCTCTTCTCCCGGTCCCTGAAACTCGGCTG
CCAGGGGAGCTGGAGCCACCTGCGAAGGTGTCTCCCATACTGGACCCCTACAGGAAGCTCCGTGTGCCCAGCTG
GGGCACAGCCCCAGCTGATGCCCCAGAGGGGCCACCCATCGCAAGAGGGGCTTTGGGCTCTGCCCTCCCTCCCCA
TGGCGCATGGGCCAAAGCCTGAGACTGAAGGACTGTTGGACCTCAGCTTCTGACAGAGGAGGAGCAGGAGGCCA
TTGCTGGCGTCCCTCCAACGAGATGCCCCGCTGCGCCAGCTGGAGGAGGGGCGGGTCAGCAAGCTCCGGGCCTCAG
TGGCAGACCTTGGGCAGCTGAAGATCCTGACAGGGGACTGGTTCCAGGAAGCACGCTCCCAGCGGCACCACAATG
CCCACCTTCGGCTCTGACCTTGTCCGAGCGTCTATGCGCAGGAAGAAGAGCACCAGGGGAGACCAGGCTCCAGGCC
ACGACAGGGAGGCTGAGGCTGTGTGAAAGAGAAGGAAGAGGGGCCAGAGCCCAGGCTCACCATTGATGAGGCCC
CTCAGGAGAGGCTCAGGGAGACTGAGGCTTCAGATCCTGAGGAGGCGTCCCAGGCCCAGGAAGATCCTGGCCAAG
GAGACCAACAGGTCTGTGCCGAGGAGGCTGACCCGGAGCTGGAGCCCGCTCGGGGGGAGAGCAGGAGCCGCGGC
CCCAGCAAGCCAGACCAAGGCCGCGTCCCAGATCCTGGAGAATGGGGAGGAGGCCCGGGGCCCCGACCCCTCTC
TCGACCGCATGCTCAGCAGCAGCTCCTCGGTGTCCAGCCTTAACCTCTCCACGCTGAGCGGCAGCCAGATGAGCC
TGTCAGGCGACGCGGAGGCGGTGCAGGTCCGCGGCTCCGTGCACTTCGCGCTGCACTACGAGCCGGGCGCCGCGG
AGCTGCGCGTGCACGTGATCCAGTGCCAGGGCCTGGCCGCCGCCCGCGCGCCGCTCGGACCCCTACGTCAAAA
GCTACCTCCTCCCGGATAAGCAGAGCAAGCGCAAGACGGCGGTGAAGAAACGGAATCTGAATCCGGTTTTCAACG
AGACTCTCCGTACTCCGTCCCGCAGGCCGAGCTTCAGGGCCGCGTGTGAGCCTGTCTGTGTGGCACC CGGAAA
GCCTGGGTGCGAACATCTTTCTGGGCGAAGTTGAAGTGCCCCCTGGACACGTGGGACTGGGGCTCTGAGCCACCT
GGCTCCCCCTGCAGCCCCGGGTCCCAACCTCTCCCGACGACCTTCCGAGCCGCGGGTTACTCGCCCTGTCCCTCA
AGTACGTCCCCGCCGGCTCCGAGGGCGCAGGACTGCCCCGAGCGGGGAGCTGCACTTCTGGGTGAAGGAGGCTC
GGGACCTCCTGCCGCTGCGGGCAGGATCCCTGGACACTTACGTACAATGCTTCGTGCTGCCTGATGACAGCCAGG
CCAGCCGCCAGCGTACAAGGGTTGTGCGACGCAGCCTCAGCCCTGTGTTCAATCACACCATGGTGTACGATGGCT
TTGGGCCTGCTGACCTGCGCCAGGCTTGTGCCGAGCTCTCCCTCTGGGACCATGGGGCCCTGGCCAACCGCCAGC
TGGGGGGCACACGCCTCAGCCTGGGCACCGGCAGCAGCTATGGGCTGCAGGTGCCCTGGATGGATTCCACACCTG
AGGAGAAGCAGCTGTGGCAAGCCCTCCTGGAGCAGCCGTGCGAATGGGTGGATGGCCTTCTACCCCTCAGAACCA
ACCTGGCCCCCAGGACGTAGCCCCACCAAGCCTCTCTCTCTGGACCCCATCTCAGGGCCTGCCCTTGCTAAAG
TCAATAAAGTCTATTCTAAGAGC

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FIGURE 123

MPQRGHPSQEGLWALPSLPMAGPKPETEGLLDLSFLTEEEQEAIAGVLQRDARLRQLEEGRVSKLRASVADPGQ
LKILTGDWFQEARSSQRHHNAHFGSDLVRASMRKKSTRGDQAPGHDREAEAAVKEKEEGPEPRLTIDEAPQERLR
ETEASDPEEASQAQEDPGQGDQQVCAEEADPELEPASGGQEPRPQQAQTKAASQILENGEEAPGPDPSLDRMLS
SSSSVSSLNSSTLSGSQMSLSGDAEAVQVRGVSVHFALHYEPGAAELRVHVIQCQGLAAARRRRSDPYVKSYPD
KQSKRKTAVKKRNLNPFNETLRYSVPAELQGRVLSLSVWHRESLGRNIFLGEVEVPLDTWDWGSEPTWLPLOP
RVPPSPDDLPSRGLLALSLKYVPAGSEGAGLPPSGELHFWVKEARDLLPLRAGSLDTYVQCFVLPDDSQASRQRT
RVVRRSLSPVFNHTMVYDGF PADLRQACAELSLWDHGALANRQLGGTRL SLGTGSSYGLQVPWMDSTPEEKQLW
QALLEQPCEWVDGLLPLRTNLAPRT

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FIGURE 124

ATGCCGTTAGTAACGAGGAACATCGAGCCAAGGCACCTGTGCCGTCAGACGTTGCCTAGCGTTAGAAGCGAGCTG
GAATGCGTGACCAACATCACCCTGGCAAATGTCATCCGACAGCTGGGCAGCCTGAGTAAATATGCAGAGGACATT
TTTGGAGAGCTCTTTACTCAGGCAAATACCTTTGCCTCTCGGGTAAGCTCCCTTGCTGAGAGGGTCGACCGACTA
CAGGTAAAGTCACTCAGCTGGATCCCAAGGAAGAAGAGTGTCACTGCAAGGAATCAACACCCGAAAAGCCTTC
AGAAGTTCCACCATTCAAGACCAGAAGCTTTTTGACAGAACTCTCTCCAGTGCCTGTCTTAGAAACATACAAT
ACCTGTGATACTCCTCCCCCTCTCAACAATCTTACCCCTTACAGGGACGATGGAAAAGAGGCACTCAAATTCTAC
ACAGACCCCTTCATACTTCTTTGATCTTTGGAAGGAGAAGATGCTGCAGGACACCAAGGATATCATGAAAGAGAAG
AGAAAGCACAGGAAAAGAAAAGATAATCCAAATCGAGGGAAATGTAAACCCACGTAAATCAAGACAGTAAG
GAAGAGTGGGAGAAAATGAAGATGGGGCAAGAATTTGTGGAGTCCAAAGAAAAGCTGGGGACTTCTGGGTATCCA
CCCCTTTGGTGTACCAGAATGGCAGCATTTGGCTGTGTTGAAAACGTGGATGCAAGTAGCTATCCGCCACCACCA
CAGTCAGACTCTGCTTCTTCACCTTCTCCTTCCTTCTCCGAGGACAACTTGCTTCTCCACCAGCAGAATTCAGT
TACCCAGTGGACAACCAAAGAGGATCTGGTTTGGCTGGACCCAAAAGATCCAGTGTGGTCAGCCCAAGCCATCCA
CCACCAGCTCCTCCTCTAGGCTCTCCACCAGGCCCTAAACCCGGGTTTGCTCCACCACCTGCCCTCCGCCACCT
CCGCCTCCAATGATAGGCATCCACCTCCACCACCGCCTGTAGGATTTGGGTCTCCAGGGACGCCTCCACCACCC
TCACCCCATCTTTCCACCTCACCTGATTTTGTGCCCCCTCCACCTCCTCCTCCACCACCAGCAGCTGACTAC
CCTACTCTGCCACCACCTCCCTTGTCCAGCCAACAGGAGGAGCACCTCCTCCTCCCCCTCCTCCTCCTCCTCCG
GGGCCCCCTCCTCCCCCTTCACTGGTGCAGATGGCCAGCCTGCTATACCACCACCGCTTTCTGATACCACCAAG
CCCAAGTCCTCCTTGCTGCGTGAGCGATGCCCCGTAGCGACCTGCTTTTCAAGCATCCGTCAAGGTTTTTCAAGTG
CGCAGGGTTGAGGAGCAGCGGGAACAAGAGAAGCGGGATGTTGTGGGCAATGACGTGGCCACCATCTTGTCTCGT
CGCATTGCTGTTGAGTACAGTACTCAGAAGATGACTCCTCTGAATTTGATGAGGACGACTGGTCCGATTTAA

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FIGURE 125

MPLVTRNIEPRHLCRQTLPSVRSELECVTNITLANVIRQLGSLSKYAEDIFGELFTQANTFASRVSSLAERVDRL
QVKVTQLDPKEEEVSLQGINTRKAFRSSTIQDQKLFDRNSLPVPVLETYNTCDTPPPLNNLTPYRDDGKEALKFY
TDP SYFFDLWKEKMLQDTKDIMKEKRKHRKEKKDNPNRGNVNPRKIKTRKEEWEKMKMGQEFVESKEKLGTSGYP
PTLVYQNGSIGCVENV DASSYPPPPQSDSASSSPSPSFSEDNLPPPPAEFSYPVDNQRGSGLAGPKRSSVVSHP
PPAPPLGSPPGPKPGFAPPPAPPPPPPPMIGIPPPPPVGFSGTTPPPSPPSFPPHPDFAAPPPPPPPAADY
PTLPPPLSQPTGGAPPPPPPPPPGPPPPFTGADGQPAIPPLSDTTKPKSSLPAVSDARSDLLSAIRQGFQL
RRVEEQREQEKRDVVGNDVATILSRRIAVEYSDSEDDSEFDEDDWSD

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FIGURE 126

GCAGCACCCCAGTTCTCCCCGCACGCCGGCACTCGCGGCTGCTGGAGCCCCGGCTGGCTCACCCCAGGGCCGGGC
AGAATTGGGCTCCAGGTCTCTGACCCCTCCCAAGGATCATGCCGCAGCCCCACTGACCCAGGAGTAGGGGCCTAA
GGGCAGGGAACCTGGAATGGGCTGTGTGTTCTGCAAGAAATTGGAGCCGGTGGCCACGGCCAAGGAGGATGCTGG
CCTGGAAGGGGACTTCAGAAGCTACGGGGCAGCAGACCACTATGGGCCCTGACCCCACTAAGGCCCGGCTGCATC
CTCATTGCCCCACATCCCCAACTACAGCAACTTCTCCTCTCAGGCCATCAACCCTGGCTTCCTTGATAGTGGCAC
CATCAGGGGIGTGTGTCAGGGATTGGGGTGACCCTGTTTCATTGCCCTGTATGACTATGAGGCTCGAACTGAGGATGA
CCTCACCTTCACCAAGGGCGAGAAGTTCCACATCCTGAACAATACTGAAGGTGACTGGTGGGAGGCTCGGTCTCT
CAGCTCCGGAAAACTGGCTGCATTCCCAGCAACTACGTGGCCCCCTGTTGACTCAATCCAAGCTGAAGAGTGGTA
CTTTGGAAAGATTGGGAGAAAGGATGCAGAGAGGCAGCTGCTTTACACAGGCAACCCCCAGGGGGCCTTTCTCAT
TCGGGAAAGCGAGACCACCAAAGGTGCTACTCCCTGTCCATCCGGGACTGGGATCAGACCAGAGGCGATCATGT
GAAGCATTACAAGATCCGCAAACCTGGACATGGGCGGCTACTACATCACCAACGCGGTTCAAGTCAACTCGGTGCA
GGAGCTGGTGCAGCACTACATGGAGGTGAATGACGGGCTGTGCAACCTGCTCATCGCGCCCTGCACCATCATGAA
GCCGCAGACGCTGGGCTGGCCAAGGACGCCTGGGAGATCAGCCGCAGCTCCATCACGCTGGAGCGCCGGCTGGG
CACCGGCTGCTTCGGGGATGTGTGGCTGGGCACGTGGAACGGCAGCACTAAGGTGGCGGTGAAGACGCTGAAGCC
GGGCACCATGTCCCCGAAGGCCTTCTTGAGGAGGCGCAGGTTCATGAAGCTGCTGCGGCACGACAAGCTGGTGCA
GCTGTACGCCGTGGTGTGCGGAGGAGCCCATCTACATCGTGACCGAGTTTCATGTGTACGGCAGCTTGCTGGATTT
TCTCAAGAACCCAGAGGGCCAGGATTTGAGGCTGCCCAATTGGTGGACATGGCAGCCAGGTAGCTGAGGGCAT
GGCTACATGGAACGCATGAACTACATTACCGCGACCTGAGGGCAGCCAACATCCTGGTTGGGGAGCGGCTGGC
GTGCAAGATCGCAGACTTTGGCTTGGCGCGTCTCATCAAGGACGATGAGTACAACCCCTGCCAAGGTTCCAAGTT
CCCCATCAAGTGGACAGCCCCAGAAGCTGCCCTCTTTGGCAGATTACCATCAAGTCAGACGTGTGGTCCTTTGG
GATCCTGCTCACTGAGCTCATCACCAAGGGCCGAATCCCTACCCAGGCATGAATAAACGGGAAGTGTGGAACA
GGTGGAGCAGGGCTACCACATGCCGTGCCCTCCAGGCTGCCAGCATCCCTGTACGAGGCCATGGAACAGACCTG
GCGTCTGGACCCGGAGGAGAGGCCTACCTTCGAGTACCTGCAGTCCTTCTTGAGGACTACTTCACCTCCGCTGA
ACCACAGTACCAGCCCGGGGATCAGACATAGCCTGTCCGGGCATCAACCCTCTCTGGCGGTGGCCACCAGTCCTT
GCCAATCCCCAGAGCTGTTCTTCAAAGCCCCCAGGCTGGCTTAGAACCCCATAGAGTCCTAGCATCACCGAGGA
CGTGGCTGCTCTGACACCACCTAGGGCAACCTACTTGTTTTACAGATGGGGCAAAAGGAGGCCAGAGCTGATCT
CTCATCCGCTCTGGCCCCAAGCACTATTTCTTCTTTTCCACTTAGGCCCCCTACATGCCTGTAGCCTTTCTCACT
CCATCCCCACCCAAAGTGCTCAGACCTTGCTAGTTATTTATAAACTGTATGTACCTCCCTCACTTCTCTCCTA
TCACTGCTTTCTACTCTCCTTTTATCTCACTCTAGTCCAGGTGCCAAGAATTTCCCTTCTACCTCTATTCTCT
TGTGTCTGTAAGTTACAAAGTCAGGAAAAGTCTTGGCTGGACCCCTTTCTGCTGGGTGGATGCAGTGGTCCAGG
ACTGGGGTCTGGGCCAGGTTTGAGGGAGAAGTTGCAGAGCACTTCCACCTCTCTGAATAGTGTGTATGTGTT
GGTTTATTGATTCTGTAAATAAGTAAATGACAATATGAATCCTC

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FIGURE 127

GGCACGAGGCTTCGTAAAGATGGCCGCGGAGGCTTTTGGAGCCAACTGGGAGCGCAGTACGCGTTTTCTGGAGCA
TGGGCAGAGGAGACAGGAACAAGCGTAGCATCCGTGAGCACCATTGGCTGAAGCGAGCACCCCGGGAGCTGACT
GGCTCCGCCATTTCGCGGGAAGGCGTTTGTGGTGCCAGAGAAAAGTAGCCAGAGCGGCGCAGTGGCGGCCGCGTTT
TGTGGTTTTCCGCTATTCCCCAGACCCGCACCTTCTCGGCCCTCTTTGCGGAGAATCGTGACCAAGATGTTGGAAC
AGTGGATTTCGAAAGCTATGGCAGCTCCTCATACGGGGGAGCCGGCGGCTACACGCAGTCCCCGGGGGGCTTTGGA
TCGCCCCGCACCTTCTCAAGCCGAAAAGAAATCAAGAGCCCGAGCCCAGCACATTGTGCCCTGTACTATATCTCAG
CTGCTTTCTGCCACTTTGGTTGATGAAGTGTTTCAAGATTGGGAATGTTGAGATTTACAGGTCACTATTGTGGGG
ATCATCAGACATGCAGAGAAGGCTCCAACCAACATTGTTTACAAAATAGATGACATGACAGCTGCACCCATGGAC
GTTTCGCCAGTGGGTTGACACAGATGACACCAGCAGTGAAAACACTGTGGTTTCCTCCAGAAACATATGTGAAAGTG
GCAGGCCACCTGAGATCTTTTCAGAACAAAAAGAGCCTGGTAGCCTTTAAGATCATGCCCCCTGGAGGATATGAAT
GAGTTCACCACACATATTCTGGAAGTGATCAATGCACACATGGTACTAAGCAAAGCCAACAGCCAGCCCTCAGCA
GGGAGAGCACCTATCAGCAATCCAGGAATGAGTGAAGCAGGGAACTTTGGTGGGAATAGCTTCATGCCAGCAAAAT
GGCCTCACTGTGGCCCAAAACAGGTGTTGAATTTGATTAAAGGCTTGTCCAAGACCTGAAGGGTTGAACTTTCAG
GATCTCAAGAACCAGCTGAAACACATGTCTGTATCCTCAATCAAGCAAGCTGTGGATTTTCTGAGCAATGAGGGG
CACATCTATTCTACTGTGGATGATGACCATTTTAAATCCACAGATGCAGAAATACTGGATCTAACTGGGTACCTG
AGATATTTTACAGCTGGACCTAGTTTCACAATCTGTGTCTCCAGCTCTGCATATGTCTGGCCAGGGGGCTTCTA
GGAAGTAGGTTTCATCTATCAAATGTCTCCTCTGACTTCCTTTTGAAACTTACTGCTCTTCTGTTTTATTTTGT
TTGTTTGAAGCTCAGAGGGAGATGGGCAATTGACAGGGATGCAATCCAGGGTGGGATTTCTTGAGGAAGTTACAA
ATAAGCTTGTTACAACATCAAGATAGATGGAATTGGAAGGATGCTACCAGGAGAGTACTTACATAGTGCTCAGGA
GTTTCTCTTCTTAAATGTTTACTGCTGAAAGATGAGCAGGACCAGGGCGTTATAGGCAGAGCCCTAGCCGAGAA
ACCTGCTGGCCTCTGCCTGTTTTCATTTCCCACTTTGGTTGTGTGGCATTACTTTCAGAATTGCACTTTCCTGCT
TGTCAIGACTTTTTGACACACTTGCCATGACGTGTGTTTCTGTGAACATGAAGTTCTGCGGTAGTGCTCCAGGG
GCAGAGGAAAAGAAGAAGTGTACTGCGTTTTGTACAAAATAAATACAGTCATATGTTTAATAAAACAGTTCTAT
TGTAACAAAAAAAAAAAAAAAAAAAAA

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FIGURE 128

MWNSGFESYGSSSYGGAGGYTQSPGGFGSPAPSQAEKKSRARAHIVPCTISQLLSATLVDEVFRIGNVEISQVT
IVGIIRHAEKAPTNIIVYKIDDMTAAPMDVRQWVDTDDTSSSENTVVPPEYVKVAGHLRSFQNKKS LVAFKIMPLE
DMNEFTTHILEVINAHMVLSKANSQPSAGRAPISNPGMSEAGNFGGNSFMPANGLTVAQNQVLNLIKACPRPEGL
NFQDLKNQLKHMSVSSIKQAVDFLSNEGHIYSTVDDDHFKSTDAE

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FIGURE 129

GGAGGGAGACGCAGAGGCGGACAAGATGGCGGCGGCAGCTGTACAGGGCGAGAGAAGCGGTGGTAGCGGAGGCTG
TAGTGGGGCTGGTGGTGCTTCCAAC TGCGGGACAGGGAGTGGCCGTAGCGGCTTGTTGGATAAGTGGAAGATAGA
TGATAAGCCTGTAAAAATTGACAAGTGGGATGGATCAGCTGTGAAAACTCTTTGGATGATTCTGCCAAAAGGA
GAAGAGCATCTTTCTCGTGGCCACAGGAAAGATCCTACAGGAATGGATCCTGATGATATTTGGCAGCTGTCCTC
CAGTCTTAAAGGGTTTGATGACAAATACACCTTGAAGCTGACCTTCATCAGTGGGAGAACAAAGCAGCAGCGGGA
AGCCGAGTTCACAAAGTCCATTGCTAAGTTTTTTGACCACAGTGGGACACTGGTCATGGATGCATATGAGCCTGA
AATATCCAGGCTCCATGACAGTCTTGCCATAGAAAGAAAAATAAAGTAGCCAATTCTAAAAGTAGCCCTCTTTCT
CCTGGATCTTGCTGAATTAGTGGCTTGGGGGGTGGGGGAGATAAAAAGAACTTAAAATGGGTAAAGTAAGAAATG
TTAAAAAG

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FIGURE 130

CTGGGCCGGGGAAATGGCGGCTTCAGGAGAGAGCGGGACTTCAGGCGGCGGAGGCAGCACCGAGGAAGCATTAT
GACCTTCTACAGTGAGGTGAAACAAATAGAGAAGAGAGACTCGGTTCTAACTTCGAAAAATCAGATTGAAAGACT
GACCCGTCCTGGTTCTCTTACTTCAATTTGAACCCATTGAGGTTCTTCAGATAGATCCTGAAGTTACAGATGA
AGAAATAAAAAAGAGGTTTCGGCAGTTATCCATCTTGGTGCATCCTGACAAAAATCAAGATGATGCTGACAGAGC
ACAAAAGGCTTTTGAAGCTGTGGACAAAGCTTACAAGTTGCTACTGGATCAGGAGCAAAAGAAGAGGGCCCTGGA
TGTAATTCAGGCAGGAAAAGAATACGTGGAAACACACTGTGAAAGAGCGAAAAACAATTAAAGAAGGAAGGAAA
ACCTACAATTGTAGAGGAGGATGATCCTGAGCTGGAAACGACAAAGGGAAGAAGAGATTGAAGCTCAAGAAAAAG
CCAAACGGGAAAGAGAGTGGCAGAAAACTTTGAGG

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FIGURE 131

TCCAGCACCAAAGCGGCCGTTCTCGGATTCCGGAGCGTTCTGGAGCCCCGAGAGACGCCCCGGGGTTCTAGAAGC
TCCCCGGCGCGCGCCAGTCCCGGCTTCATTGGGCGTCCCTCCGAAACCCACTCGGGTGCACGGGTGTCGGCGA
GCCGCGACCGGGTCTTGGCGCGCACCATGATCGTGGCGGACTCCGAGTGCCGCGCAGAGCTCAAGGACTACCTGC
GGTTCGCCCCGGGCGGCGTTCGGCGACTCGGGCCCCGGAGAGGAGCAGAGGGAGAGCCGGGCTCGGCCAGGCCCTC
GAGGGCCCCAGCGCCTTCATCCCCGTGGAGGAGGTCCCTTCGGGAGGGGGCTGAGAGCCTCGAGCAGCACCTGGGGC
TGGAGGCACTGATGTCTCTGGGCGAGTAGACAACCTGGCAGTGGTGATGGGCCTGCACCCTGACTACTTTACCA
GCTTCTGGGCGCTGCACTACCTGCTGCTGCACACGGATGGTCCCTTGGCCAGCTCCTGGCGCCACTACATTGCCA
TCATGGCTGCCGCCCCCATCAGTGTTCTTACCTGGTAGGCTCCACATGGCCGAGTTTCTGCAGACTGGTGGTG
ACCCTGAGTGGCTGCTGGGCTCCACCGGGCCCCGAGAAGCTGCGCAAACCTCAGCGAGATCAACAAGTTGCTGG
CGCATCGGCCATGGCTCATACCAAGGAACACATCCAGGCCTTGCTGAAGACCGGCGAGCACACTTGGTCCCTGG
CCGAGCTCATTAGGCTCTGGTCTGCTCACCCTGCGCACTCGCTCTCCTCCTTCGTGTTGGCTGTGGCATCC
TCCCTGAGGGGGATGCAGATGGCAGCCCTGCCCCCAGGCACCTACACCCCTAGTGAACAGAGCAGCCCCCAA
GCAGGGACCGTGAACAACCTCTGGGGGCTTTGAGTCTGCCCGCGACGTGGAGGCGCTGATGGAGCGCATGCAGC
AGCTGCAGGAGAGCCTGCTGCGGGATGAGGGGACGTCCCAGGAGGAGATGGAGAGCCGCTTTGAGCTGGAGAAGT
CAGAGAGCCTGCTGGTGACCCCTCAGCTGACATCCTGGAGCCCTCTCCACACCCAGACATGCTGTGCTTTGTGG
AAGACCCTACTTTTCGGATATGAGGACTTCACTCGGAGAGGGGCTCAGGCACCCCTACCTTCCGGGCCAGGATT
ATACCTGGGAAGACCATGGCTACTCGCTGATCCAGCGGCTTTACCTGAGGGTGGGCAGCTGCTGGATGAGAAGT
TCCAGGCAGCCTATAGCCTCACCCTACAATACCATCGCCATGCACAGTGGTGTGGACACCTCCGTGCTCCGAGGG
CCATCTGGAACATATACCTCAGCTCTTTGGCATCAGATATGATGACTATGATTATGGGGAGGTGAACCAGCTCC
TGGAGCGGAACCTCAAGGTCTATATCAAGACAGTGGCCTGCTACCCAGAGAAGACCACCCGAAGAATGTACAACC
TCTTCTGGAGGCCTTCCGCCACTCAGAGAAGGTCCACGTGAACCTGCTGCTCCTGGAGGCGCGCATGCAAGCCG
CTCTGCTGTACGCCCTCCGTGCCATCACCCGCTACATGACCTGACTCCTGAGCAGGACCTGGGCCCCGGTTGAGCT
CCCCACAAGGACTTCTCTGTCTGGAGACAGCCCCAGACCCTTTTGTGTCCCATGCCACCCTCCCCACGCTGCAG
TGGGCTTGTGTGTGATGTGCAGTCCGAAGCCACACCTCCCTTTTCCCTCACTGGAATGGACAGTTTATTGCACT
GACTCTGGGATCTCAGCCCTGCTCCTGGGAGCTGGAAGAGCACTTGGAGATCCTAAGGGACCACACCTTCTCTC
TTCCTGCCCACAGAGGCAGAGGGCACAGGAAAGAAGCCGGGCCAAGCTCGGAATTAATGTGCCACAAGTGTG
TGGCCTTCTGAACTGGGAAGTCCCTGGCTGGCCCCCGGGGAGAGGGGCAAATGCCTCCGGGACTGACACTCCA
GGCAGCTTTGCCTTCTCTCCCTGTCACTTCCAGATTTCACTTACCTCCTACTTGCCATTACCCATCAATGTGAA
AGTCAGGGTCACAGCTGGTCTGTGTGCCAGTTCCCTAAAGCCTGTTCTGTGGGCAGCCTGAGGCTGTTGCC
GAATCCTAGTTTCACTTTTGGCTTCTTGGCCCTTTTCCCTTTTCTCCATGCTTAATGGTGTGAGGCGTCAGG
AGAGAGGCCAAGTACATAAAAAAAAAAAAAAGCAGATTATCTCTAGAGAGTTTGAGCCTTTGCTGGTCACATTGC
CTTCTGAAGAGGAGGGAGTATTAGATTATAAATCCTCTTTATTTTGGTCTTTATGCTTGAGGTTCCAACCTGGA
GCCACAGTGTGTGAGAGGAGGAGGAGAGGGAGAATTCTGTCTCCAGAGCTGCACCTGCCCTCGCAGAGGCCAGC
ACCCCACTCTCCTGCCCTCAGTGGCCCTGCCGAGATGTCTCCAAAAAGTTGAGCCTTTCTAGATGGCTTAGGT
GGCACCATGGCTCAGCAGGAGGGGCGGGAGGCACAGGGTCTTGTGTTGGACCCTGCCCTGGGCCATGGCCAGG
TGACCATGGCTACATTGCCAAACCTCTGACTGCCACAGCTGCAGACTGAGAGGGTGGGTCTGAGTCCCCACAATG
TCTGAAGCTGCCCTGGGATTCTCAGGCCAACCTGCCAACAGCAAGCGGATTTCTTGCAAGATCAGGGACCCCA
TTTCTGCAGCCAGTGTCTCCTGGGTGCCTTCTGAGGACTCCACCCCCATCCAGTATCTCATCTGTCCCTCTC
CTGGGGCTTAAGTGGGTGCTTCCAGGCAGAAGCAGCCAAGGACCGATTCCAGGCACCTTCTGTAGCAAATGACT
GTGAATTACGACTTCTCTTGCCTTCTTCTAGCAGTCTGTGCTCCTCTCTGACCAGTTTGGAGGCACTGAAGA
AAGGCAAGGGCCGTGCTGCTGCTGGGCGGGGAGGAGAGGAGCCTGGCCAGTGTGCCACATTAAATACCCGTGCA
GGCGCGGAGAAGCAACCGGCACCCCTTCCGGCCTGAAAGCCTCCCTGCAAGAAGGTGTGCAGGAGAGAAGAGG
CCCCGGCATGGGGATCTGGGTCTAGAGGGCATGTGATGACTGTAAATGTTCACTGGGTGGGTAGGGAGTGGTAT
CCAGTGTCAAGTGCAGAAATCTTGGCTTTGCTACCAAGTTCCATATGATGAGAAATAAACGTTCCGTGAGGTTT
TGTTTCATAAAAAAAAAAAAAAAAAA

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FIGURE 132

MIVADSECRAELKDYLRFAPGGVGDSPGEEQRESRARRGPRGPSAFIPVEEVLREGAESLEQHLGLEALMSSGR
VDNLAVVMGLHPDYFTSFWRHLHYLLHLDGPLASSWRHYIAIMAAARHQCSYLVGSHMAEFLQTGGDPEWLLGLH
RAPEKLRKLSEINKLLAHRPWLITKEHIQALLKTGEHTWSLAELIQALVLLTHCHSLSSFVFGCGILPEGDADGS
PAPQAPTPPSEQSSPPSRDPLNNSGGFESARDVEALMERMQQQLQESLLRDEGTSQEEMESRFELEKSESLLVTPS
ADILEPSPHPDMLCFVEDPTFGYEDFTRRGAQAPPTFRAQDYTWEDHGYSLIQRLYPEGGQLLDEKFOAAYSLTY
NTIAMHSGVDTSVLRRAIWNYYHCVFGIRYDDYDYGEVNQLLERNLKVYIKTVACYPEKTTRMYNLFWRHFRHS
EKVHVNLLLLLEARMQAALLYALRAITRYMT

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FIGURE 133

GAGACGTCGGCTTCCGACCGGAAGTGAGAAGAGGAGGAAGTTGGCTGGTTGCACCGATCTGGGGGCTTCCCGGGC
TCGGGTAACCGGAGTGCTGGTATCTAATCGTCGCTCAAAAGCTCCTAGGTATATCCCGTGCCTTACCTGACTGGG
GGCTCTGAGTCCAGTTGTGTCTTCAACTTAGACACCATGGAGGCACCTCCAGTCACCATGATGCCTGTCACT
GGGGGCACCATTAACATGATGGAGTACCTGTTGCAGGGAAGTGTTTTAGATCACAGTTTGGAAAGCCTCATCCAC
CGCCTTCGTGGTTTTGTGTGACAACATGGAACCTGAGACTTTCCTTGACCATGAGATGGTATTCTCTCTTAAGGGC
CAGCAAGCCAGCCCATTGTTCTCAGGGCCGACGCTCTATGGACAGGGCAGGGGCACCTGGCATCTGCGCTAC
CTGGGACAGCCAGAAATGGGAGACAAGAACCGCCATGCCCTGGTGCGAAACTGCGTGACATTGCCACATCTGAG
AACCTCACCGACTTCTTGATGGAAATGGGCTTCCGCATGGACCATGAGTTTGTGTGCTAAGGGACATTGTTCGGT
AAGGGCATCATGAAGATTATGGTGTACAAGATTTCCGCATCCTGGTGCCAGGGAACACAGACAGCACTGAGGCC
TTGTCACTCTCTATCTCGTGGAATTAAGTGTGGTAGCACCCGCTGGGCAGGACATGGTCTCTGATGACATGAAG
AACTTCGCAGAACAGCTAAAACCTCTGGTTCACCTAGAGAAAAATAGACCCCAAGAGGCTCATGTGACTAAGAGGA
TCTGTCCACATTTGGGGCCTATCCTTACTTGTGTGAAAAAATATGTTTGCTTTTTTTGGTTTTTTGTTTTG
TTTTTGAGACAGAGTCTCGCTTTGTTTCCAGGCTGGAGTGCAGTGGCACGATCTCGGCTCACTGCAACCTCTGC
CTCCTGGGTTCAAGCAATCTCCACCTCAGCCTCCTGAGTAGCTGGGATTACAGGCACATGCCACCATGCTCAG
CTAATTTTTGTATTTTAGTAGAAATGGGGATTACCATGTTGGTCAGGCTATTCTCGAACTCCTGACCTCGTGA
TCCACCCACCTTGGCCTCCCAAAGTGCTGGGATTACAGGCATGAGCCACCACGCCTGGCCAAAAAATATGTTTT
AAATGTCCCATTTACCATTGCCAGGCAGGCATTCTTCCTTCAGGGAGAGGATGGTGAGAATTAATTGGTTCTTT
GCACTGTTCTCTCATGTGGCGATTTCACTTTATGACAGCCTTTCTATATTAAAGGCTCAGGATGTCACGGAGA
ATCTATCTAATCCCACIGTATTAAGAGGGGAAACCGGGCCAAGCGCAGTGGCTCACACCTCTAATCCCAGCACTT
TGGGAGGCTGAGGTAGGTGGATCACCACAGGTCAGGAGTTTGAGACCAGCCTGGCCAAATGGTGAAACCCCATCT
CTACGAAAAATACAAAATTTAGCCGGGCATGGTAGCAGGCGCTTGTAATCCCAGCTACTTGGGAGGCTGAGGCTG
GAGAATCGCTTGAACCCAGGAGGTGAAGGTTGCAGTGACCAGAGATGACGCCATTGCACTCCAGCCTGGGTGAGA
AGAGCGAAACTCCGTCTCAAAAAAATAAAAAATGAAGAGGGGAAACCAGAATAAATTATCTTTTGAAAGGACA
ATTTCTTGTTTGGCCATTTGTGTATAAGGTTGGTAACATTAGAGGCTGTGAGCTTGTGTTACATGGTAATAAGC
CAATGAAGAG

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FIGURE 134

GGCCGGCCTCTCCCTTCCCGGGGTTCTTCGCGCCGGGCCCCCTTCCGCGTGGGTGAGTGAATGTGAGAGTCAGCGC
TCGCGCCGCGCGCGCGCCCGCCCTCCGCTGTTCCGCGCTCTGCTTTAGGCGGTGGGGGGCGGGCGCGCGCTAA
AGCATAGAGACGGGCATTGAGCTCTTGGGCTAGAGCGTCGCCGAGTCGGAGCCGGAGCCTGAGCCGCGCGCTGTG
TCTCCGCTGCGTCCGCGGAGGCCCCGAGTGTGAGGACAAAAGCCTCCGCGCTGCTCCCGCAGACGGGGCTCATC
TGCCGCGCGCCCGCGCTGAGGAGAGTTGCGCGCCGTGCGCGCCGTGAGGATCTGAGAGCCATGTGCGCCAGCA
GCCTCTTGGAGCAGAGACCAAAAGGTCAAGGAAACAAAGTACAAAATGGATCTGTACATCAAAAGGATGGATTAA
ACGATGATGATTTTGAACCTTACTTGAGTCCACAGGCAAGGCCCAATAATGCATATACTGCCATGTGAGATTCCCT
ACTTACCCAGTTACTACAGTCCCTCCATTGGCTTCTCTATTCTTTGGGTGAAGCTGCTTGGTCTACGGGGGGTG
ACACAGCCATGCCCTACTTAACTTCTTATGGACAGCTGAGCAACGGAGAGCCCCACTTCTACCAGATGCAATGT
TTGGGCAACCAGGAGCCCTAGGTAGCACTCCATTTCTGGTCAGCATGGTTTTAATTTCTTTCCAGTGGGATTG
ACTTCTCAGCATGGGGAATAACAGTTCTCAGGGACAGTCTACTCAGAGCTCTGGATATAGTAGCAATTATGCTT
ATGCACCTAGCTCCTTAGGTGGAGCCATGATTGATGGACAGTCAGCTTTTGCCAATGAGACCTCAATAAGGCTC
CTGGCATGAATACTATAGACCAAGGGATGGCAGCACTGAAGTTGGGTAGCACAGAAGTTGCAAGCAATGTTCCAA
AAGTTGTAGGTTCTGCTGTTGGTAGCGGGTCCATTACTAGTAACATCGTGGCTTCCAATAGTTTGCTCCAGCCA
CCATTGCTCCTCCAAAACAGCATCTTGGGCTGATATTGCTAGCAAGCCTGCAAAACAGCAACCTAAACTGAAGA
CCAAGAATGGCATTGCAGGGTCAAGTCTTCCGCCACCCCGATAAAGCATAACATGGATATTGGAAGTTGGGATA
ACAAGGGTCCCGTTGCAAAAGCCCCCTCACAGGCTTTGGTTCAGAATATAGGTGAGCCAACCCAGGGGTCTCCTC
AGCCTGTAGGTGAGCAGGCTAACAATAGCCACAGTGGCTCAGGCATCAGTAGGGCAACAGACACAGCCATTGC
CTCCACCTCCACCACAGCCTGCCAGCTTTCAGTCCAGCAACAGGCAGCTCAGCCAACCCGCTGGGTAGCACCTC
GGAACCGTGGCAGTGGGTTGCGTCATAATGGGGTGGATGGAATGGAGTAGGACAGTCTCAGGCTGGTCTGGAT
CTACTCCTTCAGAACCCACCCAGTGTGGAGAAGCTTCGGTCCATTAAATAACTATAACCCCAAAGATTTTGACT
GGAATCTGAAACATGGCCGGGTTTTTCATCATTAAAGAGCTACTCTGAGGACGATATTCACCGTTCCATTAAGTATA
ATATTTGGTGCAGCACAGAGCATGGTAACAAGAGACTGGATGCTGCTTATCGTTCATGAACGGGAAAGGCCCCG
TTTACTTACTTTTTCAGTGTCAACGGCAGTGGACACTTCTGTGGCGTGGCAGAAATGAAATCTGCTGTGGACTACA
ACACATGTGCAGGTGTGTGGTCCCAGGACAAATGGAAGGGTCGTTTTTGATGTGAGGTGGATTTTTGTGAAGGACG
TTCCCAATAGCCAACCTGCGACACATTGCGCTAGAGAACAACGAGAATAAACCAGTGACCAACTCTAGGGACACTC
AGGAAGTGCTCTGGAAGGGCTAAGCAGGTGTTGAAAATTATAGCCAGCTACAAGCACACCCTCCATTTTTG
ATGACTTCTCACACTATGAGAAACGCCAAGAGGAAGAAGAAAGTGTTAAAAAGGAACGTCAAGGTCGTGGGAAAT
AAAAGGCAGTTCTACACAGACTGCAGCAACGGTTGCATCTGCATATCCTAAGAGGAAAAAATGACCTTCAAGAGA
ATTAGGACTTTTTTCTTAATTTCACTGACTTCAGAGACGATTGCAGACTTGCAGTTTAAGTATTGGAATTTTACA
AAAGACATAGGACTTAACTGGAAAATGAAAAAAGAAAAAAGAAAAAAGAAAAAAGAAAAAAGAAAAAAGAAAAA
TTTAGGTGAAAAATGTCCCTTTTATTTTGGCTTTGGTTGTGATTTTCAAGCATAATGCTATGTTTTTTTGTCTTT
TTACTATGTTTTTCGGATTTTTAAGTCCGTAAGTGCATACAGTTTTTCTTAATTTTTAAACCCTTTCTCTCTCC
ATTTTGACATTTGCACTTGGAGAACACTTGAGTTGTGAAGTTTTTGGCATCCACCCAGAAAGTGGGAATTTGA
TTTTATCCTTCCGAACCTGGAAGAACATTTTTATGAAGAATTTTGTCTAGGAGAATATAACAGTGTACCCAAGG
TTGTGCTTTAAGGGTGGTTTCAATTTTCTGACCTTTTGTACTCAAAGTAAAGTACTAGGAGTCTAAGAAATG
TTCTGTTCTTGTACATTATACTGATTAAGTCAGGATTAATTTGATTTCAAAGCTGAGAACAGTGGTAAAACTCG
TTTACAGAAATGCATTTTGAAGAGAAAAATCTGTAAACGTGTCGTGAATGTTTCTTCAGTTTCTGTTTCAGC
CAATGAGGAAAGGGCATTGCCCTTTCTTTTTACCATTAACTCTCAATAAACGTGAGATCCTGTTGAGCATC

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FIGURE 135

GTACGTCGCCGGGGTTTCGGCTGCGTCCGTCCCGCCGCCCGCCCGTTGCCGCCGCCGCCGTGCCGCCGTGCTCTC
GCTTTGCCCGCCGCCCTAAGGGGGGCTGGGGCCGGGGCCAGCCATCACTGCCGTTGCCGGGATGCCGCCGGGTG
TACATCGGCCGCCTGAGCTACCAGGCCCCGGGAGCGCGATGTGGAGCGCTTCTTTAAGGGCTACGGGAAGATCCTG
GAGGTGGATCTGAAGAACGGATATGGTTTTGTGGAGTTTGATGATCTGCGTGATGCAGATGATGCTGTTTTATGAA
CTGAATGGCAAAGACCTTTGTGGTGAGCGAGTAATTGTTGAGCATGCCCGCGGCCACGGCGAGATGGCAGTTAC
GGTTCTGGACGCAGTGGATATGGTTATAGAAGAAGTGGCCGAGATAAATATGGCCCTCCTACTCGCACAGAGTAC
AGACTTATTGTGGAGAATTTGTCAAGTCGGTGCGAGCTGGCAAGACCTAAAGGATTATATGCGTCAGGCAGGAGAA
GTGACTTATGCAGATGCTCACAAGGGACGCAAAAATGAAGGGGTGATTGAATTTGTATCTTATTCTGATATGAAA
AGAGCTTTGGAAGTTGGATGGAAGTGAAGTCAATGGGAGAAAAATCAGATTAGTTGAAGACAAGCCAGGTTCC
AGACGACGCCCGGTCCTACTCCAGAAGCCGGAGTCATTCAAGGTCTCGCTCTCGAAGCAGACATTCCCGTAAGAGC
AGAAGCCGAAGTGGCAGCAGCAAAAGCAGTCATTCTAAGAGTAGATCTCGGTCCAGGTCCGGCTCCCGCTCCCGG
AGCAAGAGCCCGAGCCGGAGCCAGAGTCGGAGCCGGAGCAAGAAAGAGAAAAGCAGGAGCCCCAGCAAGGAAAAAG
AGCCGACGCCCGCAGCCATAGCGCTGGCAAGAGCCGCAGCAAGAGCAAAAGACCAAGCTGAAGAGAAGATCCAAAAC
AATGACAATGTCCGGAAACCCAAGAGCCGGAGTCCTAGCAGGCATAAAAGTAAGAGCAAAAGTCGGAGCAGGAGT
CAGGAGAGGAGAGTGGAGGAGGAGAAGCGAGGGAGTGTGAGCAGGGGCAGGAGCCAGGAGAAGAGCCTCCGCCAG
AGTCGGAGCCCGAGCAGGAGCAAAAGGGGGCAGCAGGAGCCGGAGCAGGAGCCGAGCAAGAGCAAGCACAAGAGG
AAGGGCAGGAAGAGAAGCAGAGAGGAGAGCCGAGTCGCAGTCGCAGCCGCAGCAAGAGTGAGAGGAGCAGAAAG
CGAGGCAGCAAGCGAGACAGCAAGGCGGGCAGCAGCAAGAAGAAGAAGGAAGACACTGACCGCTCCAGTCC
AGATCTCCATCCCGCTCCGTGTCAAAGGAGCGGGAACATGCCAAGTCTGAATCCAGCCAGAGGGAAGGTCGAGGA
GAGAGTGAGAATGCTGGCACCAATCAGGAGACCCGGTCCAGGTGAGATCCAATTCCAAATCGAAACCAAACCTT
CCATCAGAATCACGCTCCAGATCAAAGTCAGCTTCAAAAACCCGATCTCGGTCCAAGTCTAGATCCAGGTCTGCT
TCCAGATCGCCCTCCCGATCTAGATCTAGGTCCCACTCAAGGTCTTAAGTGGCTATGGCCACAGCTGGAACCTACC
CGAGAAGTCTTTTGTACATGTTTGGTAGCCGTAGCACAAGTGATTGGAGTAGAACATGTCAGTCTGTACATTTT
TAACTCCCTAATGGTGTGTCTATAATTGTTAAATCTAAGTGCTTCCTCTCAGTAAAGCCTCCTGGCACCAGGCC
TTCCTGCTCGACTGAAAAAATTTTCTCTTTGAAAATCCCTTTTACTCATGGCCACAGTAGAATATCCAAAAC
GCCTTGGCTTTCAGGCCTGGCCTTTTCTACAGGGAGCTCAGTAACCTGGACGGCTCTAAGGCTGGAATGACCACA
TAGGTAGGTATGGTGAGTTCAACCATTTTTGCTCTTGAATTGATGCCCTTCGATGTATGCCATTTAGTGAAAGTG
CTAAGTCTTAAGTTTCTACCACTTTGGTTTCATATTTTGGACTTAACAAAGTTGTGAATAGCACAGTCGAGGA
AAATTGATACCTGCAGTAACCCATAGGAAATAAACTGTAGAGTCCATATTCTGGTATTGTGATTATATTGTTTT
ATATT

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FIGURE 136

AGGGTTCTCTCCCTTGCCACCATGAGCGAGTCATTTGACTGTGCAAAATGCAACGAGTCCCTGTATGGACGCAA
GTACATCCAGACAGACAGCGGCCCTACTGTGTGCCCTGCTATGACAATACCTTTGCCAACACCTGTGCTGAGTG
CCAGCAGCTTATCGGGCATGACTCGAGGGAGCTGTTCTATGAAGACCGCCATTTCCACGAGGGGCTGCTTCCGCTG
CTGCCGCTGCCAGCGCTCACTAGCCGATGAACCCCTTACCTGCCAGGACAGTGAGCTGCTCTGCAATGACTGCTA
CTGCAGTGCGTTTTCTCGCAGTGCTCCGCTTGTGGGGAGACTGTCATGCCTGGGTCCCGGAAGCTGGAATATGG
AGGCCAGACATGGCATGAGCACTGCTTCCTGTGCAGTGGCTGTGAACAGCCACTGGGCTCCCGTTCTTTTGTGCC
CGACAAGGGTGCTCACTACTGCGTGCCCTGCTATGAGAACAAGTTTGTCTCGCTGCGCCCGCTGCAGCAAGAC
GCTGACACAGGGTGGAGTGACATACCGTGATCAGCCGTGGCATCGAGAATGTCTGGTCTGTACCGGATGCCAGAC
GCCCCCTGGCAGGGCAGCAGTTACCTCCCGGGATGAAGATCCCTACTGTGTGGCCTGTTTTGGAGAACTCTTTGC
ACCTAAGTGCAGCAGCTGCAAGCGCCCCATCGTAGGACTCGGTGGAGGCAAGTATGTGTCCCTTTGAAGACCGACA
CTGGCACCACAACCTGCTTCTCCTGCGCCCGCTGCTCTACCTCCCTGGTGGGCCAGGGCTTCGTACCGGATGGAGA
CCAAGTGCTCTGCCAGGGCTGTAGCCAGGCAGGGCCCTAAGCCAGGGCTCCTGGACCCAGGGCTTTCCCATACCAC
GGGCCCAGGACTGTGGCTCCTTTTCTAAACCACCTCTGGGACTCAGCTCCCCCGCCAAAAAAATGGGTCTCCT
TCTGGGCTCCAGGATTGTCTCCCCACTCCAGCATCCCCAACTGGTACTCCCTGACCCAGGGCCCCAAACCTGGG
CTCTTACAGAGCTCCATGAGTCAAGCCCCCTCCCCACACCTGGACTCCAGAATTCACCCTCTCCCCTGCAGTCT
GGGTCCCAGACTGAGTCTCTCCCCAAATCAGGGCTCTAGACCCGAGCCCTCCAAACCTGGACTCTGGGACTTA
GGCCCCCTTAAATCTAGACTTCTCTTTATAGGTTTCAGGTCTCCTATGGGTGCCTGGGAAGTCCTTGAAAGTGGA
CTGTTCTCAGGCTTGACCTGCCCCACCCATCCCCGCGGTTGAGGCTGTGGGGGCAGCAGATCAGGAGCCCACTG
ATAAGGGGGCCCTAGGGTACAGGGTGCTGCCCAGCAGGTGCGCCACCGAGTGTCTTCTCATTTTATTTACAGTCCAT
TTTGCCCATAGATGGGCAGAGGGGTGAGATTGGCTCATCCCCCTTCCAGATTCTGCAATAAAGCGGTGTGAGG

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FIGURE 137

CTACAGATACTGCCGTGTGAGAGTACCTGAGGGGCTCCTGAAAGACCTACTGCCAGGACCAGTGACCCTGGTGAT
GGAACGCTCGGAGGAGCTCAACAAGGACCTAAACCCTTTTACGCCTCTTGTAGGCATTTCGGATTCTGTATCATGC
TTTTATGCAAGACTTTGGCTCAGATGTTTGAGGGTCCGCTTGCTCTCAGTAGTCCCAACCTCAGCTCCCAGGCCAG
TTCTCTGAATGTCGAGGAGTTCCAGGATCTCTGGCCTCAGTTGTCCTTGTTATTGATGGGGGACAAATTGGGGG
TGGCCAGAGCCCCGAGTGTCGCCTTGGCTCAACTGTGGTTGATTTGCTGTGCCCGGAAAGTTTGGCATCATTG
TCCAGGCTGTGCCCTGGAAAGTACTACAGCCATCCTCCAACAGAAGTACGGACTGCTCCCCTCACATGCGTCTTA
CCTGTGAAACTCTGGGAAGCAGGAAGGCCCAAGACCTGGTGCTGGATACTATGTGTCTGTCCACTGACGACTGTC
AAGGCCTCATTTCAGAGGCCACCGGAGCTAGGGCACTAGCCTGACTTTTAAAGCAGTGTGCTTTCTGAGCACT
GTAGACCAAGCCCTTGGAGCTGCTGGTTTAGCCTTGACCTGGGGAAAGGATGTATTTATTGTATTTTCATATA
TCAGCCAAAAGCTGAATGGAAGGTTAAGAACATTCTAGTGGCCTTATTCTAATAAGTTTCTTCTGTCTGTTT
TGTTTTTCAATTGAAAAGTAATTAATAACAGATTTAGAATCTAGTGAGAGCCTCCTCTCGGTGGGTGGTGGCA
TTTAAGGTTCAAACCCAGCCAGAAGTGCTGGTGCTGTTTTAAAAAGTCTCAGGTGGCTGCGTGTGGTGGCTCATGCC
TGTAATCCCAACATTCTGGGAGGCCCAGGCGGGGAGAAGTCTGCTTGAAGCCAGGAGTTCAGAATCAGCCTGGGCAAC
ATAGCAATACTCCGTCTCATAAAAATTAATAAAATAAAAAGTCTCAGGTGACCAAAGGCTCCTGAAGCTAGAACCA
GGTTTGATAAAGATTGAAGAGCCACAGGCCACTCTCCCTCTGAGCCATTGGGCCTAGTGGTGTGATGTATTGT
AATTGCTCGCAGGGAGAGCAGTCTTTTTGGTGTAATAGTGGGATGTCTGCTTAGTTGGCAGGGGTTCACTCCAA
TGGAAGAATATTGGGAAATAAACCTCCACTATCCTTTATAGCCAGGGACTTTTTCTTATTTATTCATAAAATAA
ATTATAGTTAATTATACCCATAACACCTTTATTTAAATCCAGTGTTCTCCGCAGCCTTTTGTCTATTTATATGTG
TACCAAGTGTTAAACATAATTATTATTGGGCATTTGAACCTTGTTTTTCTTTAAAGAAATGCTGCTATTAACAT
ATTTGTAAATGGA

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FIGURE 138

MERSEELNKDLNPFTPLVGIRIPDHAFMQDLAQMFEGLALTSANLSSQASSLNVEEFQDLWPQLSLVIDGGQIG
DGQSPECLRGSTVVDLSVPGKFGIIRPGCALESTTAILQQKYGLLPASHYL

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FIGURE 139A

AGGCCAGCGCTGGCGCAGTGAGAACTTCGAGAGACCCGTGGACCTGGAGGGCTCTGGGGATGATGACTCCTTTC
CCGATGATGAACTGGATGACCTCTACTCGGGGTCGGGCTCGGGCTGTAAGTACCCCCCTCCCTACCTCTGCCTGG
GGGCAGTGACCAGTCTGTATCCAGCCTCAACTCTGAGAAGCCACGGGGGGCTTGCTTCAGTGAGGCAGGGGGCA
TTACTGCCTGGGTTCAGGCAAGTTCTTCTTCTGCTCTGGATCCCCAGAACAAGAAGGGCAGAACATCCTTCTGGGGA
TAGAACAGACCTGGGAGGACCTCAGGGGCCAGAATGTCCAGGTCTCCAGGGTCCCACGTCTGCATCTTTGTGTG
TGCTATGTGGCTTTCTCTGCAGACCTTGCTTGGTTCCGGTGGTCCCGTCAGGTGCAATAAGCTGTGGCCAATGGT
GGGGTTAGGGCAGTGATGACACAGGGCAGGTGCTTCAAGTGGTGCCTGGGATGGCCCCGCCCTGGGGAAGGGGAG
CCAGGTTCAGCTGGGTCTAGCAGAATCTCGGGAGAGAAGGGCACCGCGAACCCCACTCTGCCATGTAGCAACTGTG
TGCCCCCTCGGTGCTCCCCCTCCCTGAATCCCTGTATTTTACCTGTGGATGGTGAGAAATACGACTTCTTCTCAG
TGCTCTAGGAGGGTTTGGGATAGGAAGCTGGGGTCTGGCAGAGAGGAGCTCTCAAAATGGTAGCAAAAAGA
AGGCAGCTGAGACTGGGCCAGTGAGGGCACGGGCTGGCATCTGAGGAGATGGTACGGGGTCTGCACGCCACAGA
GCTGGCTCCCCACAGCCCTCGCCTCTGGTCTCCCCCTCCTTAGCCAAGTCCTTTGAGCCTCTTTCAAATTAATCTT
TGTAACCCCGTTTATATTGGGTACATCTCTATTGCAAGTTCCCTGGCTCCCCCTCCCTCCTGGCTTCCG
AGCCCAGGAGCTGGCTGTGGCTTCTCCCTCCCCCATCCCCTACTCCCCATCTCATTTCCTCCCAAGTTTCCTTAC
TGTCGGGCTTTGCGTCAGCCAGATTGCTCAAGCAGTTCCCTGCCTCAAGGGCTTCTTTTCCCTTTTACCCTCC
GCCTCTGCCTCTGGGGGAAGCCCTTAGTGTACCAACCCCTGCCTTGAGCTTGTTGGTAGGGGTGCCTTTGGGGTCTG
ACTCTTCCCAAGATGCCACTCCTGTGTTCCTTGCAAGCCCCAGCAAGTTTTGCAGCCAGTAGCGCTCAGTTGC
TGCTGCCTGGATTCAACCTCATAGAACTGTAGGCTGGGTGGGCAGGAATAGTCAAGGAAGGCTTCCCGGGAGAG
GCGGCCCCCAGAATTTTGAAGTTGGCAGAGAGAAGTTGGGGAACATCAGCAACTGACCACCTTTAGCTGGGCTGT
GCCTTCTCCTTTCTCTCATCTTTTCTGGGAAAATTGGGTAAAGAGAGGGGGTTGGGAGACCTAATCTTGATGGC
CATTGCTTACCTGGGATCCTCATGCCCTCACAACCAACCCAGCTCCCTAGCTCTCTCCCTCTCCCCACCCCTC
AGACTTCGAGCAGGAGTCGGGCATTGAGACAGCCATGCGCTTCAGCCAGATGTAGCCCTGGCGGTGTCCACCAC
ACCTGCGGTGCTGCCACCAACGAACATCCAGCCTGTGGGCACACCATTTGAAGAGCTCCCTCTGAGCGCCCCAC
CCTGGAGCCAGCCACCAGCCCCCTGGTGGTGACAGAAGTCCCGGAAGAGCCAGCCAGAGAGCCACCACCGTCTC
CACTACCATGGCTACCACTGCTGCCACAAGCACAGGGGACCCGACTGTGGCCACAGTGCCCTGCCACAGTGGCCAC
CGCCACCCCAAGCACCCTGCAGCACCCCTTTTACGGCCACCACTGCTGTTATAAGGACCACTGGCGTACGGAG
GCTTCTGCCTCTCCCACTGACCACAGTGGCTACGGCACGGGCCACTACCCCGAGGCGCCCTCCCGCCCAACAC
GGCGGTGTCTTGGACACCGAGGCCCCAACACCCAGGCTGGTACGACAGCTACCTCCCGGCCAAGAGCCCTTCC
CAGGCCGCGCCACCACCCAGGAGCCTGACATCCCTGAGAGGAGCACCCTGCCCTGGGGACCACTGCCCTGGACC
CACAGAGGTGGCTCAGACCCCAACTCCAGAGACCTTCTGACCACAATCCGGGATGAGCCAGAGGTTCCGGGTGAG
TGGGGGGCCAGTGGAGACTTCGAGCTGCCAGAAGAAGAGACCACACAACCAGACACAGCCAATGAGGTGGTAGC
TGTGGGAGGGGCTGCGGCCAAGGCATCATCTCCACCTGGGACACTGCCCAAGGGTGCCCGCCGGGCCCTGGCCT
CCTGGACAATGCCATCGACTCGGGCAGCTCAGCTGCTCAGCTGCCTCAGAAGAGTATCCTGGAGCGGAAGGAGGT
GCTCGTAGCTGTGATTGTGGGCGGGGTGGTGGGCGCCCTCTTTGCTGCCTTCTTGGTCACACTGCTCATCTATCG
TATGAAGAAAAGGATGAGGGCAGCTACACGCTGGAGGAACCAAGCAGGCGAGCGTCACATACCAGAAGCCTGA
CAAGCAGGAGGAGTTCTATGCCTAGTGGAGCCACAGTGCCCTCCCTGCAGCCTCAACACCACCTGTGTCCAGTC
CCCAGCCTGGCCCCACCAGCCCAAGCCTGGGACTGGGCCCTGGAACCTGGCCCCAGTTCTTCTCTGCCCTCTCTCC
CAAGGTCTGCCCAGGCTGCCAGCCTCACACAGATCTTCCCCGAGGAAGAGGGGCTGCTGCCATCTGCCCCAGACT
GTGCCCTTACGAGCTCATCTCTTGTTCCTCATCCCTGCCACCAGTCTGGGGCTTCAGGACCTCATGTCAGATG
GATGGGAGGAAGAAAGCTCCTGATTGGCTGGTGGTGGGAAGAAAGGGTGGGGCTTGAGATGAGCCTGAGCCCTGAC
TTGGCACCCACAGTGCTCACTGAGATCTCCTTTTGGGGCAGAGAGGCACTCAGGCTGGTTTCCAGGACAAACAT
TTGGTAAACACAGCCCTTGAATCATCTAGACACTGCAACCTCTTGCTCGTATCCAGGGCCTCTCTCTAGCTGG
GTGAGAGGGTGTCCCTTGTACCAAGCCTGTTTTGTCTGGTCTCTCTGGGGTGTGTAATCTCTCCTTGTGCTG
CCAAGTACACATGTACCCAGACTTCATTTCTTCTGCATCTTCCCCAAGAAACAGCTTCTGAGGGTGTGGGG
CAGCCACTGGTGAGGAGGGGCTGCTCTGATGTCCCTCCTATGAGGGGACTCTGCACAGACACCATTTGCCACACT
ATCACCATATTTTCACTCAGTCACACACAAGACAAAAGCATGCAATGACAAAACCATACGCAATCTGACCGCCC
AGCCAAATCAAGACATATCACAGAACACACGCGTCCCTTCCAAGATGTTTATCCTCATGCATCACTTACACACCCC
CAGACACGTAAGTCAAGTCACTAGTCAATGGTCACATGACAGTGACAGTGTGGCCTCCTCCTACCCCAAT

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FIGURE 139B

ACACCCACACTCTGGCACCACACACATTGTCTCCAGCTTTTCAGGCTTACTGGGGAGGGTGGAATCGAGCCAGAAC
AATCAGCCCATATTGGGTCCCCCTAAGTTGCCCCGTCACTACTAGTCCCATGCCATGGTGCCACACCAACCATG
CAGCCGCCAACCCAGCCAGTGTGAGACACAATCCCATGTGGATGCACAGTCTCACTCCACATGACCTGCTCTCA
ATGCTGGAGGGAAACAGGCAGGCCCTTGCCCTTCTCGGAAAAAGTGTGGGGCCACAGCCCTTTTAGGGCATTGCA
TGCAGGTGGGCCTGGCTTACCCCTACCTGCTTCCTCCCCACCGCAGCTGGCAGAGGGGGAGGTTTGGGGCCAGA
CCCCACTAGCTGGGAGCTGGGGGCTCCTCTAAGGCTGAGGAAGGAAATTGGCCCCAGGTTGTTGGGGGCTCT
TGGGTCTCCAGGACGGAAGGCCAGGGCAGGGAGGGGGCATGTGGTTGGGCTCCTTTATCTCCCTGTGTCCCT
TCCTGCTTTGAGCTAGGGGCTGACTCTGCCTCCAGGACACAAGTCTCAAAGTGCCTGTGAGGGCGGGCCCTC
CGCACCCCTCTGCCCTCTGCCTGGCAGGCCAACCTCAGCCCACCTGCCCAGAGGCCCTCCCTGTGGACACCCCTC
ACCTATTTGGCCAAACAATTCTGGCTGCAGCTTCAGGGGCCATGGCTGGAAGCAGCCCCCTGCAGATCCCTCAGGC
CCCAGGTGAGGGTTTGGAGGATGAGACCAGGTGATAGTGGGGGAGGGGTTACTTCCTTTGTTACCTAGCAAGTA
GGGCTATTTCATCGGTATTTTAAATGTGGGGTCACAGATCTTTTGGGGAGGGTGTGCTTGGCAGGGGGCTCTT
GGAGCCAAAGGGATGTGGTGTGAGTTGCGATTGGCTGGCACTACACCCCCACCCCTCACCCACATCCCAGATT
AAGTCAGGAAGGCAGGTTTTATTTTCAGGGCCCTTTTCAAGATGCCCTGGCAGCAGATTTCTGCAGGATGAGGGGT
AGCGGTGTGTAGGCAGTGAGGGGAGGTTCCAGGGGCTGTCCACAGCCTGTCTTTCCAGGCTGGGCTCCATCT
TCCAGTCCCAAAACCCTCCTTCACAGGGGCCAGAGGCTTGTGAGGAAGCCAGGTGGACCCAGCCTTAGAAGAGTG
GGCATGGGGGGCCCCCTGATACTGGAGGGGGCGGGTTGGCCTCAGTCATCTTTGGAGCAGAAGGGCTGGGTCTCTG
GGGCCACAGACCACAAGGCTCAGCCTCCCTACCTGCTCCCTGGGGTGCTGTCTTGGAGAGCACAGCTCTGG
TGAGACGGCCTGGGCAGGCCGAGGCTGAGAAACCAGGGAGGATAGAGGAGAAAAGGGCTTGGGCCCCAGCCCCA
GAAGATGCTGGACCCAGGTGGGAGACCCAACAGTGGGTGCAGTTTCTCAGTAGGGCTGGAGCCAATGGTGGGGG
TGGCCCCGGCAGGCCTGGCTCCTCACATCCCAGGGGTGGCTTCTGATTTGGGGCTTGGGCTCCAGGCACCTGGCT
TCTCTTCTCTGTGTCTTAGCATTTGAGAGAAGAGGCCAGGGGCCCTTGTTCATGGATCCCTGGACCCAAGGCAGA
TGTCCAGGCTTTATCTCTCTGAGGATGAGGAGTCTGACCAGCCAAAATCTGCCCTGGCCGGCCTGACCGGGGCAA
GGCAGTCCAAGAGAGTTCACTGAGGACCAGCTAGGCTCTCCAGGTGCAATGTGGGTGCAGGGCCCTCATGTCCC
CCTACCCCTGCCTGTGATGGAGTGTCTGAGGGGCTTTGGCATTGCTGGAAGCACAGGGAGTTCCAAATGAGAG
GGAGCTTCTGTGGCTTGGAGCCTCTGGGGCCTTGGCTGCCAGAGCACGAGGCAGGCCAGGACCTGGAGAGCCCA
GACCCTGTCTCCAGGAGGCCAGGAGGCCAGATGGGGGCTTGGCTGAAAGACTGGTCCCTTGATCGCTGGAGGC
ATGTGGGTGGCAACCAGGGCTGGGCAGGGCTTAGGGTGTGTGGGCCAAACCCCCCTGGGGTTGGCAAAGCCGCCT
GTCAGGCCCTCCTGGTGGGGGGCCCCCTGGACACAGGGAGCAGACCCCTCTGCCTCATGGGGTAGGAGTGGCTGCCTCC
TGTGTTCTCTGGATTTCTTCTCCCAACAATAACAACCTGGACTTGCTCCCTCAGGCTCTTGCTGTAAATAGA
AGCCCGCAAACCTGTACAGATTTACAGAGGCATCGAGACTGGGCCCTGGGAGTTGCCATCTGAGAGCCGATGGCCC
CAGCATCCCCCAGGTGCCTGCCTGGCACCACAGTGACCTGGCCTCAGCGTGGCAAATGCATGTAAATATTTTTC
GTAGGCAGCGTGGCTCCAGAGAGCCCCCTGAAGACAGTGTCCCTCCCTCCTGTGAGTCCTTTCTCCTGTACAGAA
CCTGCCCTGGGGTGGGTGGGGTCTGCCATTCCCTCCCCAGGCCTTCCCTGCCCTTCTCTCCCTGTAACTGT
TTATTAACCATACCTGTCTGAGTTTCATGGCCAAAACCTTAAATAAGAAAAACAAAAGAAAAAGACAGTGGAAAA
AAGAGACCAAGGCGCCTGCCCCACTGCGGGTACTCTCCTGTTCAGCCTTGTGAAGGAAGTGGTTTTGTTTTGT
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGTGTTGTTGTTTTTTTAACTTCTGTGCTGTGCCATTTATAAGAGGAA
ATAAAATTAAGCTGAAATG

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FIGURE 140

AGCCATGCCCTTCTTGGACATCCAGAAAAGGTTGCGCCTTAACATAGATCGATGGTTGACAATCCAGAGTGGTGA
ACAGCCCTACAAGATGGCTGGTCGATGCCATGCTTTTGAAAAAGAATGGATAGAATGTGCACATGGAATCGGTTA
TACTCGGGCAGAGAAAAGAGTGCAAGATAGAATATGATGATTTTCGTAGAGTGTTTGCTTCGGCAGAAAACGATGAG
ACGTGCAGGTACCATCAGGAAGCAGCGGGATAAGCTGATAAAGGAAGGAAAGTACACCCCTCCACCTCACCACAT
TGGCAAGGGGGAGCCTCGGCCCTGAACAGAGCAGCTGCTGATGCTGGAGGCTGATTTTCCTGTTCTCTGTTCTC
CACTGGAAAGGTTGTTTACGACAAACCTCCTTGTCAAAGTGTGTAAAAATAAAGGATTGCTCCATCCT

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FIGURE 141

GCTGAGCGGGCTTTGGACACCATGAACTTTGATGTGATTAAGGGAAAGCCAATCCGCATCATGTGGTCTCAGAGG
GATCCCTCTTTGAGAAAATCTGGTGTGGGAAACGTCTTCATCAAGAACCTGGACAAATCTATAGATAACAAGGCA
CTTTATGATACTTTTTCTGCTTTTGGAAACATACTGTCCTGCAAGGTGGTGTGTGATGAGAACGGCTCTAAGGGT
TATGCCTTTGTCCACTTCGAGACCCAAGAGGCTGCCGACAAGGCCATCGAGAAGATGAATGGCATGCTCCTCAAT
GACCGCAAAGTATTTGTGGGCAGATTCAAGTCTCGCAAAGAGCGGGAAGCTGAGCTTGGAGCCAAAGCCAAGGAA
TTCACCAATGTTTATATCAAAAACCTTTGGGGAAGAGGTGGATGATGAGAGTCTGAAAGAGCTATTCACTCAGTTT
GGTAAGACCCCTAAGTGTCAAGGTGATGAGAGATCCCAATGGGAAATCCAAGGCTTTGGCTTTGTGAGTTACGAA
AAACACGAGGATGCCAATAAGGCTGTGGAAGAGATGAATGGAAAAGAAATAAGTGGTAAAATCATATTTGTAGGC
CGTGACAAAAAGAAAGTAGAACGGCAGGCAGAGTTAAAACGGAAATTTGAACAGTTGAAACAGGAGAGAATTAGT
CGATATCAGGGGGTGAATCTCTACATTAAGAACTTGGATGACACTATTGATGATGAGAAATTAAGSAAAGAATTT
TCTCCTTTTGGATCAATTACCACTGCTAAGGTAATGCTGGAGGATGGAAGAAGCAAAGGGTTTGGCTTCGTCTGC
TTCTCATCTCCTGAAGAAGCAACCAAGCAGTCACTGAGATGAATGGACGCATTGTGGGCTCCAAGCCACTATAT
GTTGCCCTGGCCAGAGGAAGGAAGAGAGAAAGGCTCACCTGACCAACCAGTATATGCAACGAGTGGCTGGAATG
AGAGCACTTCCTGCCAATGCCATCTTAAATCAGTTCCAGCCTGCAGCGGGTGGCTACTTTGTGCCAGCAGTCCCA
CAGGCTCAGGGAAGGCCTCCATATTATACACCTAACCAGTTAGCACAGATGAGGCCTAATCCACGCTGGCAGCAA
GGTGGGAGACCTCAAGGCTTCCAAGGAATGCCAAGTGTCTATACGCCAGTCTGGGCCTCGTCCAACCTCTCGCCAT
CTGGCTCCAACCTGGTAATGCTCCGGCCTCTCGTGGCCTCCCTACTACCACTCAGAGAGTGGGCTCTGAGTGCCCG
GACCGCTTGCTATGGACTTTGGTGGGGCTGGTGCCGCCAGCAAGGGCTGACTGACAGCTGCCAGTCTGGAGGC
GTTCCACAGCTGTGCAGAACTTAGCGCCACGCGCTGCTGTGCTGCTGCTGCTCCCCGGGCTGTTGCCCCCTAC
AAATACGCCTCCAGTGTCCGCAGCCCTCATCTGCCATACAGCCTCTGCAGGCACCCAGCCTGCGGTCCATGTG
CAGGGGCAGGAGCCACTGACTGCCTCCATGCTGGCTGCAGCACCCCCCAGGAACAGAAGCAGATGTGGGAGAA
CGCTTGTTCCCACTCATCCAAACAATGCATTCAAATCTGGCTGGGAAGATCACGGGAATGCTGCTGGAGATAGAC
AACTCTGAGCTGCTGCACATGTTAGAGTCCCCGAGTCTCTCCGCTCCAAGGTGGATGAAGCTGTAGCAGTICTA
CAGGCTCATCATGCCAAGAAAGAAGCTGCCCAGAAGGATTCAAAGCCAAATAACCCCTTATGGAATTCAACTCA
AGGTTTGAAGACTTCCTAGCTTGTCTATGGACCTCAACACCAAGGATTACAAATTGCAAATTTAATAGGTCATT
TTGTATCAAAAGGTCAATTATGAAGCACCTAGAATTTTTCAATTATACGAATATGTTCTTTGGGTTCTGCTGTGG
CCCAGACAGTGTTAACTTTTTTTTTTATTGTGGGTTTTGATTTTTTCCCCCAGAAATTGGTTTTATTGATGTACC
CAAGTCTTACGTTTCCCAATAAAGAAAAAAATCTCCAT

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FIGURE 142

ACCAGGCAGCCTGCGTTTCGCCATTGAAGCGACCCAAGGAGGACCGGGCTCCGACGGGAGTCCGACGGACCCAT
GACGTGGGCCAAGAGGGCCAGCTGAGCCAGATGGCCAGCGCTGTCCACCCCAGCTCTTCGCAGATGCAAGCC
AGGAAGAAACGCAGAGGGATCATAGAGAAACGGCGTCGAGACCCGATCAACAGTAGCCTTTCTGAATTGCGACGC
TTGGTCCCCACTGCCTTTGAGAAACAGGGCTCTTCCAAGCTGGAGAAAGCCGAGGTCTTGCAGATGACGGTGGAT
CACTTGA~~AA~~AATGCTCCAIGCCACTGGTGGGACAGGATTCTTTGATGCCCGAGCCCTGGCAGTTGACTTCCGGAGC
ATTGGTTTTTCGGGAGTGCCTCACTGAGGTCATCAGGTACCTGGGGGTCTTGAAGGGCCAGCAGCCGTGCAGAC
CCCGTCCGGATTGCCTTCTCTCCACCTCAACAGTACGACAGCCGAGATGGAGCCTTCGCCACGCCCACTGGC
CCTTTGGCCTTCCCTGCCTGGCCCTGGTCTTTTCTTCCATAGCTGTCCAGGGCTGCCAGCCCTGAGCAACCAGCTC
GCCATCCTGGGAAGAGTGCCCAGCCCTGTCTCTCCCGGTGTCTCCTCTCTCTGCTTACCCCATCCCAGCCCTCCGA
ACCGCTCCCCTTCGCAGAGCCACAGGCATCATCTGCCAGCCCGGAGGAATGTGCTGCCAGTCGAGGGGCATCT
TCCACCCGGAGGGCCCGCCCCCTAGAGAGGCCAGCAGCCCTGTGCTGTGCCCCCAGCAGCAGGGCTGCCAGG
AGCAGCCACATCGCTCCCCCTCTCTCAGTCTTCTCTCCCAACACCCCTGGTCTTACAGGGTCTGGCTGCTTACGTG
GCTGTTCACCCCAACTCATCTCTCCCAAGGGCCAGCTGGGAGGCCAGCGGGAGCCATGCTCTACCACTCCTGG
GTCTCTGAATCACTGAAATCGGGGCTTTCTTGAGCTGCCCTTACCACCCCGCCCCAAGGAATAAGGAAGGTTT
TTTTACCAGGAGCCCAAAAAGGGCACTGCCTTTTTCTGCTTTGCTTCGTGGACTGGCTCATATGTGAAGGCACGT
TCTCCAGCCATCAGAGGCCCTCTCTCTCCCAACCCATCTCTCCTTCTCACTGTTATCCAGCTTATCCACCCAG
CTCTCTGGAGCTGTTCTGGTCTCAGAGCCTTGGTTCATTCTCACCTGAACAGATGAGTCTGGGAGAGACCC
TCAGAGATCCGCCAGACCCCTCTCCTGGCCTCTGCACACCAGCAGCAGGCATGAACCTTGGGTCTGGGAAAAAG
CTTTAACCTGCAGGCGACCCAGGACCCAAAGCAGGCTGTTCTTGGGGCGGTGACACCCAGTCAGGAGCAATGAC
TGACTGGCTCAGGCTTCCACGCGCAAGAGGCTGGAACATAGTGTCTGCCTCGCTTCTGGAGATAGTAACTGAG
CAGGGGTACAAAGAGGTCTCTCTGGGAACCTGTCTGCCCTTCCCACCTGTCTTGGGCCACACCATCACACTG
AACCACGAGACAGACCTTTCTCCACCACAGCCAAGGCTGGAGACTGGGGGCCAGCAGAGCCTGTCTCCACCC
TCTCCAGCAGCAGACACCCACCTCTCACTGACTAACAGGTCCCTGCACACAGCTGGCTGGTAAACCCAGCT
GGGAGGTTTCTAGGCAGCAGCAAAACTCTGTGACAGGGTGTCTCACACCAGGCCTTGGACAGCTCTCCAGACA
GGAGCCAGGGTTGAGCAATGGAGAGCCAGCCCCACGTCTTACAGTCGCCATCCTCCAGGCGTGTGGTCCCTCC
CCATTGGGTGCACAGTGCAGAGGGGCCGTGGCCCCATGTGATGGTGCAGAGAGGAACCTCTGGGATTACGCA
CCAGACGTCTGTGCTGCCTGGTTTGATCCGGCTCACAGAGCCAGACTGCTGGAACAGCCAAGGACTGTGAGGC
TGGACAAAAATAACTGCAAGGAGGGGCAAGAGAAAGGATGATTCGAGGCACCTTGGCCCTTCAAGGTATGCACT
GGGTGAGCGCCTGAGATCCTGTTTACCAGGACTCCACAGAGCTGGCTCTGCTCAGAAGCCATTTCAATCCCCGG
CTCCACCTTAGGCCACTTTTTCTAACAGAGGAAACAATGGTCCAGCAGTCGTTCCAGCAGAACAGCGGAGCCT
GGACTGCACCCAGTGGGACCAGTGTGGCCACACCAGTTGATAAAATGCAGAAACCTTCTGTACTCGTTGGTAA
ATATCTACTCCCCAAGTGACTCCAGGTGCCCCCACCCTGGCACTTCCCCCAGGACTCTACGATCTGGTTA
CTGCCTGGCCGATCCAAGGCTGTGGAGTCCCAGAGCCAGCAGTTCACTGGTGCTCATTCCACTGGTTAGATAC
TTCAGTTGTCACCCCTGGGAAGATTCTCCACCTCTCCCTTTGATGGAACACCCCTCCCAGAGGCTGCATTGA
GGAGACTCCACAGACTGAAAAGTGAGTTTGAGAAACCTTGGGAAAAGGGCCCTTCAAGAAGTGGAATAAGAG
GGAGGAGATCATTGAGTGACCCAGAAAGCTCTTTGAAAAGACAGACTCCTCAAGGAGAGATAAAGAGGAAAGCA
CCTCTTTCATTTTTTAGTGTGAGCTAATTCATCAGACTGCTGTCTCTCTGGACCCATCTGAGATGTGCACTAGC
AAGGAGAGGGGGATCATTTTTAGAGAGTGGGTCAATGGCAGGGAGTGCTCCGGAGGGAGGCAGAGGGGAGACTGT
GGTAGAAGGAAGACAGAATCACACATGCTCCCAGGATTGGGGACAGGGACAGAGGAGGTAACAGAAGGCAAGG
CCAGTTTTCCCGTTATCATGAAGGGGCCACTCAGGACAGGAACAAGGACAACCTCTCTCTCTCTCTCTCTCTC
CTGCTGCTCTCTGGGATACCAAGGTGAGTGTAGTCTTGCAGTTTGGCAACTTCTAGCCTGAGAATCCCTAGTG
GGGCTGTGGGAAACACATTTCCACGTTGCAAGCATGCAACTCCAAAGAATCTGTGATGCCACTGAAATGAGATGG
GAATGATCCAGCTCTTTCAGCATCTTGGTTGAACTTGCTTTTCAATGTCCCTGGGATATTGTGGAAGGAAAGGTGA
CTGTGTGATCTGATTCTGTGGTCAAGGACTTGATCTTGTGTTTCTATCCCCAAGCCTTCTGGTGTCTCCAAC
CCTACCCCATTGATGGGTTGTTGCGGACATCCAATAAAGATTTTTTTAGTGCTTCTGGA~~AAAA~~AAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAC

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FIGURE 143

MKRPKEPSGSDGESDGPIDVGQEGQLSQMARPLSTPSSSQMQARKKRRGIEKRRRDRINSSLSELRRLVPTAFE
KQGSSKLEKAEVLQMTVDHLKMLHATGGTGFFDARALAVDFRSIGFRECLTEVIRYLGVLGESSRADPVRIKLL
SHLNSYAAEMEPSPTPTGPLAFPAWPWSFFHSCPGLPALSQNLAILGRVPSVLPGVSSPAYPIPALRTAPLRRRA
TGIILPARRNVLPARGASSRRARPLERPATPVVPAPSSRAARSSHIAPLLQSSSPTPPGPTGSAAYVAVPTPNS
SSPGPAGRPAGAMLYHSWVSEITEIGAF

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FIGURE 144

GATCCTAAATTGCAGCAAGGCTACAATGCTATGGGATTCTCCCAGGGAGGCCAATTTCTGAGGGCAGTGGCTCAG
AGATGCCCTTCACCTCCCATGATCAATCTGATCTCGGTTGGGGGACAACATCAAGGTGTTTTTGGACTCCCTCGA
TGCCCAAGGAGAGAGCTCTCACATCTGTGACTTCATCCGAAAAACACTGAATGCTGGGGCGTACTCCAAAGTTGTT
CAGGAACGCCTCGTGCAAGCCGAATACTGGCATGACCCCATAAAGGAGGATGTGTATCGCAACCACAGCATCTTC
TTGGCAGATATAAATCAGGAGCGGGGTATCAATGAGTCCTACAAGAAAAACCTGATGGCCCTGAAGAAGTTTGTG
ATGGTGAAATTCTCAATGATTCCATTGTGGACCCTGTAGATTGCGAGTGGTTTGGATTTTACAGAAGTGGCCAA
GCCAAGGAAACCATTCCCTTACAGGAGACCTCCCTGTACACACAGGACCGCTGGGGCTAAAGGAAATGGACAAT
GCAGGACAGCTAGTGTTTCTGGCTACAGAAGGGGACCATCTTCAGTTGTCTGAAGAATGGTTTATGCCACATC
ATACCATTCTTGGATGAAACCCGTATAGTTCACAATAGAGCTCAGGGAGCCCTAACTCTTCCAAACCACATGG
GAGACAGTTTCTTTCATGCCCAAGCCTGAGCTCAGATCCAGCTTGCAACTAATCCTTCTATCATCTAACATGCC
TACTTGAAAGATCTAAGATCTGAATCTTATCCTTTGCCATCTTCTGTTACCATATGGTGTGAATGCAAGTTTA
ATTACCATGGAGATTGTTTTACAACTTTTGATGTGGTCAAGTTCAGTTTTAGAAAAGGGAGTCTGTTCCAGATC
AGTGCCAGAACTGTGCCCAGGCCCAAAGGAGACAATACTAAAGTAGTGAGATAGATTCTAAGGGCAAACATTT
TTCCAAGTCTTGCCATATTTCAAGCAAAGAGGTGCCCAGGCCTGAGGTACTCACATAAATGCTTTGTTTTGCTGG
TGATTTAACCAGTGCTTGAAAAATCTTGCTGGCTATTTCTGCATCATTTCTAAGGCTGCCTTCTCTCTCAG
TACGTTGCCCTCTGTGCTATCATCTTATCATCAATTATTAGACAAATCCCACTGGCCTACAGTCTTGCTTCTGCA
GCACCCACTTTGTCTCCTCAGGTAGTGATGAATTAGTTGCTGTACAAAAGGAGGGAAGTAGCACCCAAATTAAG
TTGCTTAAGAGAGGAAATGTACATCTTGTATAACTTAGGGAGCGAAGAAAATGTAGGCGCGAAAGTGAAAAGTGA
GGCAGCTAGTTCTTCTATTCCATTCTCGACCAACCTGCCCTTCTTAATATGACTAGTGGTCTTGATGCTAGAG
TCAACTTACTCTGTTGCTGGCTTTAGCAGAGAATAGGAGGAACCATATGAAAAAGATCAGGCTTTCTGACTTCCA
TCCCCAAAACACATTTACCAGCATACTCCAACTGTTTCTGATGTGTTCCATGAGAAAAGGATTGTTTGCTCAAA
AAGCTTGGAATACTACACACTCCCTTTCTCCTTCTGGAGATCAACCCACATTAGAGTGTCTAAGGACTCCTGA
GAATTCCTGTTACAGTAAACAAAATAACGTAATCTACCATTTCTTACACTATTTGAGCATGGAAATCATAGTCC
CCACTCTGTGAAAACCTTAACGCTTTTGGAAAGACATTTCTGTAGCATGTCAGTTTGGAGAAATGATGAGCTACGC
CTTGATGAAAGAACCGTGTGGTGTGCTAAGTTTAGCCATTATGGTTTTCTTCTCTCTTAAAGCCTTATT
CTTCAACTAAAAGATGAGGATTAAGAGCAAGAAGTTGGGGGGGATGTGAAAATAATTTTATGAGGTTGTCTAAAA

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FIGURE 145

GGGTCGCGCGGAGATTGCTGGGCGGTTCTTGCCGGAAGCGGAGAGCGGCTGATCGCAGTCCGGAGGTGAGGCGGA
ACTCTGAGGCAGATATCCTCCCTTTCTCCTCGGCTGCTGCTCTTACTTTGACAAGCCAGGCTAACATTGAAGGT
GGTCCATTATGGCTGACATGCAAAATCTGGTAGAAAGATTGGAGAGGGCAGTGGGCCCGCTGGAGGCAGTATCTC
ATACCTCTGACATGCACCGTGGGTATGCAGACAGTCCTTCAAAAGCAGGAGCAGCTCCATATGTGCAGGCATTG
ACTCGCTGCTTGGCTGGTCCTGTGGCAGAGTACTTGAAGATCAGTAAAGAGATTGGGGGAGACGTGCAGAAACATG
CGGAGATGGTCCACACAGGTTTGAAGTTGGAGCGAGCTCTGTTGGTTACAGCTTCTCAGTGTCAACAGCCAGCAG
AAAATAAGCTTTCCGATTGTGGTGGCACCCTCTCAGAGCAGATCAAAGAAGTGATAACCTTTCTGGGAGAAGAACC
GAGGCAGCAAGTTGTTTAAATCACCTGTGAGCTGTGAGCGAAAGTATCCAGGCCCTGGGCTGGGTGGCTATGGCTC
CCAAGCCTGGCCCTTATGTGAAAGAAATGAATGATGCCGCCATGTTTTATACAAACCGAGTCCTCAAAGAGTACA
AAGATGTGGATAAGAAGCATGTAGACTGGGTCAAAGCTTATTTAAGTATATGGACAGAGCTGCAGGCTTACATTA
AGGAGTTCCATACCACCGGACTGGCCTGGAGCAAAACGGGGCCTGTGGCAAAAGAACTGAGCGGACTGCCATCTG
GACCTCTGCCGGATCAGGTCTCTCCCTCCACCATGCCCTCTCTCCCCAGTCTCTACCAAGTTTCATGCT
CATATGAGTCTGCTTCCCGCTCAGCACTGTTGCGCGAGATTAATCAGGGGGAGAGCATTACACATGCCCTGAAAC
ATGTATCTGATGACATGAAGACTCACAAGAACCTGCCCTGAAGGCTCAGAGTGGTCCAGTACGCAGTGGCCCCA
AACCATTCTCTGCACCTAAACCCCAACCCAGCCCATCCCCAAACGAGCCACAAGAAGGAGCCAGCTGTACTTG
AAGTGGAGGGCAAGAAGTGGAGAGTGGAAATCAGGAAATGTTTCAACCTGGTGATTGAGGACACAGAGCTGA
AACAGGTGGCTTACATATACAAGTGTGTCAACACGACATTGCAAAATCAAGGGCAAAATTAAGTCCATTACAGTAG
ATAACTGTAAGAACTTGGCCTGGTATTGATGACGTGGTGGGCATTGTGGAGATAATCAACAGTAAGGATGTCA
AAGTTCAGGTAATGGGTAAAGTGCCAACCATATCCATCAACAAAACAGATGGCTGCCATGCTTACCTGAGCAAGA
ATTCCCTGGATTGTGAAATAGTCAGTGCCAAATCTTCCGAGATGAATGTCTCTATCTCTACAGAAGCGGTGACT
TTAATGAATTCCAGTTCCTGAGCAGTTCAGACCCATGGAACGGGCAGAAGTGGTCACCACAGTGACAGAAA
TTGCTGGATAAGCGAAGTGCCACTGGGTTCTTTGCCCTCCCTTCACACCATGGGATAAATCTGTATCAAGACGGT
TCTTTTCTAGATTTCTCTACCTTTTGTCTTAAACTGCTTCTCTGCTCTGAGAAGCACAGCTACCTGCCTTC
ACTGAAATATACCTCAGGCTGAAATTTGGGGTGGGATAGCAGGTCAGTTGATCTTCTGCAGGAAGGTGCAGCTTT
TCCATATCAGCTCAACCACGCCGCCAGTCCATTCTTAAGGAAGTCCGACTAGGACTGATGATGCATTTTAGCTT
TGAGCTTTTGGGGGTTATTCTACCAACAAACAGTCCATTGGAAGAAAACAGTCCCTGGAATTAACAGATCAGAA
TGTTTCACTGGTTAATCTTTTTTAAACATGAGCATGAAGGTAGCAGAAGCTGGTGTGTTTCCAGATGGTTCTT
CTAACCAACTAATTTTTTACTGTTGACAAGCGAGGCAAGGGTTGCACTGGACCAAGGCTGAGGCTTGCCATC
TAGCATTCATACAAAATTGTTTCTTATAAGCATTCCTTTTATTCTCTATTCTATCCTGGGTCTGCCCTCAACCGT
GAGATAGGAGAGTCTCTGGTACTAGCTGCTGTAGCAGTGCCCTTCATCCAGGGCAGTTAATGGAGTCTTGGACCC
TTTCTTTCTCTGGGATCCCTGCCCAGCACCTTCCTATAGAGATGACTTTAAAGGAAAAAAAAAAAAAAAAAAC
CCACATGATTTCAAGGAGTCTGGCATTCTGAATCCTTCTTCCCTGCCAGGTGCTGACCTGTCTTCACTGCC
TCCTTTTCCCTGTCTATGCTCATCAGCTTATGGCTTCTGTCTAAGCACCTGAACAGAGGACTGAAACCTCCACTGC
AGGCTGGTTTTAGGTCTTGAATTATGTAAGAATCTTGACAGCACTGCTAATGTAAATTTAGTTGTTTTTCCCT
CTAGGACAAACACTTACCAAAATATGCAACTTTTTTTGGTGGGAAGAGAGATTGTCTGTGATTTCTACCCATT
TCCTGAGGCCTGTGGAAATAAACCTTTATGTACTTAAAGTTATACAGAAAATAGAATAAAGTTAATACCAAACTT
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FIGURE 146

GGCTTCGGTCGCTACCGCTCCCGCTCTGCCACCCCGCCAACCGCCGCTCGGGCCTCCGTCGCTGCCGCGTCGCT
TTCTCGCTCCTTGGATCGCACATCCTCCCAGATGCAGCGCCGGGACGACCCCGCCGCGCATGAGCCGGTCTTC
GGGCCGTAGCGGCTCCATGGACCCCTCCGGTGCCACCCCTCGGTGCGTCAGACGCCGTCTCGGCAGCCGCCGCT
GCCTCACCGGTCCCGGGGAGGCGGAGGGGGATCCCGCGGGGGCGCCCGGGCCTCGCCCGCCACGCAGCCGCCACC
GCTGCTGCCGCCCTCGGCCACGGGTCCCGACGCGACAGTGGGCGGGCCAGCGCCGACCCCGCTGCTGCCCCCTC
GGCCACAGCCTCGGTCAAGATGGAGCCAGAGAACAAGTACCTGCCCGAACTCATGGCCGAGAAGGACTCGCTCGA
CCCGTCTTCACTCACGCCATGCAGCTGCTGACGGCAGAAATTGAGAAGATTGAGAAAGGAGACTCAAAAAAGGA
TGATGAGGAGAATTACTTGGATTTATTTCTCATAAGAACATGAACTGAAAGAGCGAGTGTGATACCTGTCAA
GCAGTATCCCAAGTTCAATTTTGTGGGAAGATTCTTGGACCACAAGGGAATACAATCAAAAGACTGCAGGAAGA
GACTGGTGCAAAGATCTCTGTATTGGGAAAGGGCTCAATGAGAGACAAAGCCAAGGAGGAAGAGCTGCGCAAAGG
TGGAGACCCCAATATGCCCACTTGAATATGGATCTGCATGTCTTCATTGAAGTCTTTGGACCCCATGTGAGGC
TTATGCTCTTATGGCCCATGCCATGGAGGAAGTCAAGAAATTTCTAGTACCGGATATGATGGATGATATCTGTCA
GGAGCAATTTCTAGAGCTGTCTACTTGAATGGAGTACCTGAACCCTCTCGTGGACGTGGGGTGCCAGTGAGAGG
CCGGGGAGCTGCACCTCCTCCACCACCTGTTCCCAGGGGCCGTGGTGTGGACCACCTCGGGGGGCTTTGGTACG
TGGTACACCAGTAAGGGGAGCCATCACCAGAGGTGCCACTGTGACTCGAGGCGTGCCACCCCCACCTACTGTGAG
GGGTGCTCCAGCACCAGAGACGGACAGCGGGCATCCAGAGGATACCTTTGCCTCCACCTCTGCACCAGAAAC
ATATGAAGAATATGGATATGATGATACATACGCAGAACAAAGTTACGAAGGCTACGAAGGCTATTACAGCCAGAG
TCAAGGGGACTCAGAAATATTATGACTATGGACATGGGGAGGTTCAAGATTCTTATGAAGCTTATGGCCAGGACGA
CTGGAATGGGACCAGGCCGTGCTGAAGGCCCTCTGCTAGGCCAGTGAAGGGAGCATACAGAGAGCACCATA
TGGACGTTATTAAAAACAAACATGAGGGGAAAATATCAGTTATGAGCAAAGTTGTTACTGATTTCTTGTATCTCC
CAGGATTCCTGTTGCTTTACCCACAACAGACAAGTAATTGCTAAGTGTTTTCTTCGTGGTCCCTTCTTCTCC
CCACCTTATTCCATTCTTAACCTCTGCATTCTGGCTTCTGTATGTAGTATTTTAAATGAGTTAAATAGATTTAG
GAATATTGAATTAATTTTTTAAGTGTGTAGATGCTTTTTTCTTTGTTGTTTAAATATAAACAGAAGTGACCTTT
TATAATAAAAAAAGAAGTTGAGTAAAAAACAACACACAAACCTGTTAGTTTCAAAAATGACATTGCTTGCT
TAAAGGTTCTGAAGTAAAGGCTTGTTAAGTTTCTCTTAGTTTTGATTTGAGGCATCCCGTAAAGTTGTAGTTGCA
GAATCCCAAAGTAGGCTACATTTCAAATTCAGGGCTGTTTAAAGATTTAAATCACAACATTAACGGCAGTAGG
CACCACCATGTAAAGTGAGCTCAGACGTCTCTAAAAATGTTTCCCTTTATAAAAGCACATGGCGGTTGAATCTT
AAGGTTAAATTTAATATGAAAGATCCTCATGAATTAATAGTTGATGCAATTTTAAACGTTAATTGATATAAAA
AAAAAACAACAAATTAGGCTTGTAACACTGACTTTTTTATTACGTGGGTTTTGAAATCTAGCCCCAGACATAC
TGTGTTGAGAGATACTTAGAGGGAGGGAGTAGGTTTTGAAGAGGTTGATGGTGGTGGGGAGGGAAGGCTCCTGA
ATTGAGTTTGATGCGAGAGCTTTTAGCCATGAAGAACTTTTTCAGTCATAGTACTAATAATTAATTTTTCAGTATT
TAAAAAGACAAAGTATTTTGTCCATTTGAGATTCTGCACTCCATGAAAAGTTCACTTGGACGCTGGGGCCAAAAG
CTGTTGATTTTCTTAAGTTGACGGTTGTCAATATATCGAACTGTTCCCAAGTTAGTCAAGTATGTCTCAACACTA
GCATGATATAAAAAGGACACTGCAGCTGAATGAAAAGGAATCAAAATCCACTTTGTACATAAGTTAAAGTCCT
AATTGGATTTGTACCGTCTCCCATTTTGTCTCGGAAGATTAAATGCTACATGTGTAAGTCTGCCTAAATAGGT
AGCTTAACTTATGTCAAAATGTCTGCAGCAGTTTGTCAATAAAGTTTAGTCCTTTTTTA

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FIGURE 147

MQRDDPAARMSRSSGRSGSMDPSGAHPSVRQTPSRQPPLPHRSRGGGGSRGGARASPATQPPPLLPPSATGPD
ATVGGPAPTPLLPPSATASVKMEPENKYLPELMAEKDSLDPSTHAMQLLTAEIEKIQKGDSSKKDDEENYLDLFS
HKNMKLKERVLPVKQYPKFNFGKILGPQGNTIKRLQEETGAKISVLGKGSMRDKAKEEELRKGGDPKYAHLNM
DLHVFIEVFGPPCEAYALMAHAMEEVKKFLVPDMMDDICQEQFLELSYLNQVPEPSRGRGVVVRGRGAAPPPPV
PRGRGVPPRGALVRGTPVRGAITRGATVTRGVPPPTVRGAPAPRARTAGIQRIPLPPPAPETYEEYGYDDTY
AEQSYEGYEGYYSQSQGDSEYYDYGHGEVQDSYEAYGQDDWNGTRPSLKAPPARPVKGAYREHPYGRY

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FIGURE 148

CTCGCGTCACAGCCGGGATGAAGCCGATCCTACTGCAGGGCCATGAGCGGTCCATTACGCAGATTAAGTATAACC
GCGAAGGAGACCTCCTCTTTACTGTGGCCAAGGACCCTATCGTCAATGTATGGTACTCTGTGAATGGTGAGAGGC
TGGGCACCTACATGGGCCATACCGGAGCTGTGTGGTGTGTGGACGCTGACTGGGACACCAAGCATGTCCCTACTG
GCTCAGCTGACAACAGCTGTCGTCTCTGGGACTGTGAAACAGGAAAGCAGCTGGCCCTTCTCAAGACCAATTCGG
CTGTCCGGACCTGCGGTTTTGACTTTGGGGCAACATCATCATGTTCTCCACGGACAAGCAGATGGGCTACCACT
GCTTTGTGAGCTTTTTTGACCTGCGGGATCCGAGCCAGATTGACAACAATGAGCCCTACATGAAGATCCCTTGCA
ATGACTCTAAAATCACCAGTGCTGTTTGGGGACCCCTGGGGGAGTGCAATCATCGCTGGCCATGAGAGTGGAGAGC
TCAACCAATATAGTGCCAAAGTCTGGAGAGGTGTTGGTGAATGTTAAGGAGCACTCCCGGCAGATCAACGACATCC
AGTTATCCAGGGACATGACCATGTTTGTGACCGCGTCCAAGGACAACACAGCCAAGCTTTTTGACTCCACAATC
TTGAACATCAGAAGACTTTCCGGACAGAACGTCTGTCAACTCAGCTGCCCTCTCCCCCAACTATGACCATGTGG
TCCTGGGCGGTGGTCAGGAAGCCATGGATGTAACCACAACCTCCACCAGGATTGGCAAGTTTGAGGCCAGGTTCT
TCCATTTGGCCTTTGAAGAAGAGTTTGGGAAGAGTCAAGGGTCACTTTGGACCTATCAACAGTGTTCCTTCCATC
CTGATGGCAAGAGCTACAGCAGCGGCGGCGAAGATGGTTACGTCCGTATCCATTACTTCGACCCACAGTACTTTG
AATTTGAGTTTGAGGCTTAAGAAGCTGGATCTCCTGCCGGCGTGGTTGGCTCATGCCTGTAATCCCACTTTT
TTTTTAAGGCAGGCGGATCACCTGAGGTCAGGAGTTTAAGACCAGCCTGACCAACATGGAGAAACCTCGTCTCT
ACTAAAAATACAAAATTAGCCAGGCATGGTGGCACACGCCATAGTCCCAGCTACTCAGGAGGCTGAGGCAGGA
GAATCACTTGAACCCAGGAGGCAGAGGTTGCAGTGAGCTGAGATCACGTCATTGCACTCCATCCTGAGCCACAAG
AGCAAACTCCGTCTCAAAAAAAAAAAGAAGAAGGTGGATCTCCAACCAGGCCAGAGAAGATTCTACAGAAGG
TTTTGAACTCTAAGAAATAAATTGGTTTGGTAATAAATGGCTTCTGGTCAGA

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FIGURE 149

MKPILLQGHESITQIKYNREGDLLFTVAKDPIVNVWYSVNGERLGTYMGHTGAVWCVDADWDTKHVLTSADNS
CRLWDCETGKQLALLKTNSAVRTC GFDFGGNIIMFSTDKQMGYQCFVSFFDLRDPSQIDNNEP YMKIPCND SKIT
SAVWGPLGECIIAGHESGELNQYSAKSGEVLVNVKEHSRQINDIQLSRDMTMFVTASKDNTAKLFDSTTLEHQKT
FRTERPVNSAALSPNYDHVVLGGGQEAMDVT TTTSTRIGKFEARFFHLAFEEEFGRVKGHFGPINSVAFHPDGKSY
SSGGEDGYVRIHYFDPQYFEFEFEA

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FIGURE 150

GAGCGGAGCCGCGGGCGGGAGGGCGGACGGACCGACTGACGGTAGGGACGGGAGGCGAGCAAGATGGCGCAGACG
CAGGGCACC CGGAGGAAAGTCTGTTACTACTACGACGGGGATGTTGGAAATTACTATTATGGACAAGGCCACCCA
ATGAAGCCTCACC GAATCCGCATGACTCATAATTTGCTGCTCAACTATGGTCTCTACCGAAAAATGGAATCTAT
CGCCCTCACAAAGCCAATGCTGAGGAGATGACCAAGTACCACAGCGATGACTACATTAAATTCTTGCGCTCCATC
CGTCCAGATAACATGTGCGGAGTACAGCAAGCAGATGCAGAGATTCAACGTTGGTGAGGACTGTCCAGTATTCGAT
GGCCTGTTTGAGTTCTGTGAGTTGTCTACTGGTGGTTCTGTGGCAAGTGTGTGAACTTAATAAGCAGCAGACG
GACATCGCTGTGAATTGGGCTGGGGCCCTGCACCATGCAAAGAAGTCCGAGGCATCTGGCTTCTGTTACGTC AAT
GATATCGTCTTGCCATCCTGGAAGTCTGCTAAAGTATCACCAGAGGGTGTGTACATTGACATTGATATTCACCAT
GGTGACGGCGTGGAAGAGGCCCTTCTACACCACGGACCGGGTCATGACTGTGTCTTTTATAAGTATGGAGAGTAC
TTCCAGGAAGTGGGGACCTACGGGATATCGGGGCTGGCAAAGGCAAGTATTATGCTGTTAACTACCCGCTCCGA
GACGGGATTGATGACGAGTCCATGAGGCCATTTTCAAGCCGGTCAATGTCCAAAGTAATGGAGATGTTCCAGCCT
AGTGCGGTGGTCTTACAGTGTGGCTCAGACTCCCTATCTGGGGATCGGTTAGGTTGCTTCAATCTAACTATCAAA
GGACACGCCAAGTGTGTGGAATTTGTCAAGAGCTTTAACCTGCCTATGCTGATGCTGGGAGGCGGTGGTTACACC
ATTCTGAACGTTGCCCGGTGCTGGACATATGAGACAGCTGTGGCCCTGGATACGGAGATCCCTAATGAGCTTCCA
TACAATGACTACTTTGAATACTTTGGACCAGATTTCAAGCTCCACATCAGTCCTTCCAATATGACTAACCAGAAC
ACGAATGAGTACCTGGAGAAGATCAAACAGCGACTGTTTGAGAACCTTAGAATGCTGCCGCACGCACCTGGGGTC
CAAATGCAGGCATTCTGAGGACGCCATCCCTGAGGAGAGTGGCGATGAGGACGAAGACGACCCTGACAAGCGC
ATCTCGATCTGCTCCTCTGACAAACGAATTGCCTGTGAGGAAGAGTTCTCCGATTCTGAAGAGGAGGGAGAGGGG
GGCCGCAAGAAGTCTTCCAAGTCAAAAAAGCCAAGAGAGTCAAAACAGAGGATGAAAAAGAGAAAGACCCAGAG
GAGAAGAAAGAAGTACCGAAGAGGAGAAAACCAAGGAGGAGAAGCCAGAAGCCAAAGGGGTCAAGGAGGAGGTC
AAGTTGGCCTGAATGGACCTCTCCAGCTCTGGCTTCCCTGCTGAGTCCCTCACGTTTCTTCCCCAACCCCTCAGAT
TTTATATTTTCTATTCTCTGTGTTTATATAAAAAATTTATTAATATAAATATCCCCAGGGACAGAAACCAAG
GCCCCGAGCTCAGGGCAGCTGTGCTGGGTGAGCTCTTCCAGGAGCCACCTTGCCACCCATTCTTCCCGTTCTTAA
CTTTGAACCATAAAGGGTGCCAGGTCTGGGTGAAAGGGATACTTTTATGCAACCATAAGACAAACTCCTGAAATG
CCAAGTGCCTGCTTAGTAGCTTTGGAAAGGTGCCCTTATTGAACATTCTAGAAGGGGTGGCTGGGTCTTCAAGGA
TCTCCTGTTTTTTTTCAGGCTCCTAAAGTAACATCAGCCATTTTATAGATTGGTTCTGTTTTCGTACCTTCCCAGT
GCCTCAAGTGAGCCAAGAAACACTGCCTGCCCTCTGTCTGTCTTCTCCTAATTCTGCAGGTGGAGGTTGCTAGTC
TAGTTTCCTTTTTTGGAGATACTATTTTCATTTTGTGAGCCTCTTTGTAATAAAATGGTACATTCT

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FIGURE 151

MAQTQGTRRKVCYYYDGDVGNYGGQGHMPKPHRIRMTHNLLNLYGLYRKMEIYRPHKANAEEMTKYHSDDYIKF
LRSIRPDNMSEYSKQMQRFNVEDCPVFDGLFEFCQLSTGGSVASAVKLNKQQT DIAVNWAGGLHHAKKSEASGF
CYVNDIVLAILELLKYHQRVLYIDIDIHHGDGVEEAFYTTDRVMTVSFHKYGEYFPGTDLRDIGAGKGKYAVN
YPLRDGIDDES YEAFKPVMSKVMEMFQPSAVVLQCGSDSLSGDRLGCFNLTIKGHAKCVEFVKSFNLPMLMLGG
GGYTIRNVARCWYETAVALDTEIPNELPYNDYFEYFGPDFKLHISPSNMTNQNTNEYLEKIKQRLFENLRMLPH
APGVQMQAIPEDAIPESGDEDEDDPKRISICSSDKRIACEEEFSDSEEEGEGGRKNSSNFKKAKRVKTEDEKE
KDPEEKKEVTEEEKTKEEKPEAKGVKEEVKLA

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FIGURE 152

GGCACGAGGGCGCGGAGCGGAGCGGGCGGGCGCAGCTAGCGGGTCGGCCGCGGAGCGGAGGTGCAGCTCGGCT
TCCCCCGGCACCCCTCCCCCTCGGGCGCCAGCCCCACCCCTCCGCCGGCCGGGCCGACCCCGCGTACTATCCCC
TGCGGCGCGAGCCCCGGGGCGGCTCCAAGCGCCCCCAGCAGACCCCATCATGGGCAGCCAGAGCTCCAAGGCTC
CCCCGGGCGACGTGACCGCCGAGGAGGCAGCAGGCGCTTCCCCCGGAAGGCCAACGGCCAGGAGAATGGCCACG
TGAAAAGCAATGGAGACTTATCCCCAAGGGTGAAGGGGAGTCGCCCCCTGTGAACGGAACAGATGAGGCAGCCG
GGGCCACTGGCGATGCCATCGAGCCAGCACCCCTAGCCAGGGTGCTGAGGCCAAGGGGGAGGTCCCCCCCCAAGG
AGACCCCCAAGAAGAAGAAGAAATTCCTTTCAAGAAGCCTTTCAAATTGAGCGGCCTGTCTTCAAGAGAAATC
GGAAGGAGGGTGGGGGTGATTCTTCTGCCTCCTCACCCACAGAGGAAGAGCAGGAGCAGGGGGAGATCGGTGCCT
GCAGCGACGAGGGCACTGCTCAGGAAGGGAAGGCCGAGCCACCCCTGAGAGCCAGGAACCCAGGCCAAGGGGG
CAGAGGCTAGTGACGCTCAGAAGAAGAGGCAGGGCCCCAGGCTACAGAGCCATCCACTCCCTCGGGGCCGAGA
GTGGCCCTACACCAGCCAGCGCTGAGCAGAATGAGTAGCTAGGTAGGGGCAGGTGGGTGATCTCTAAGCTGCAAA
AACTGTGCTGTCTTGTGAGGTCACTGCCTGGACCTGGTGCCCTGGCTGCCTTCCTGTGCCAGAAAGGAAGGGG
CTATTGCCTCCTCCAGCCACGTTCCCTTTCTCCTCCTCCTCCTGTGGATTCTCCCATCAGCCATCTGGTTCTC
CTCTTAAGGCCAGTTGAAGATGGTCCCTTACAGCTTCCCAAGTTAGGTAGTGATGTGAAATGCTCCTGTCCCTG
GCCCTACCTCCTTCCCTGTCCCCACCCCTGCATAAGGCAGTTGTTGGTTTTCTTCCCCAATTCTTTTCAAGTAG
GTTTTGTTTACCCTACTCCCCAAATCCCTGAGCCAGAAGTGGGGTGCTTATACTCCCAAACCTTGAGTGTCAGC
CTTCCCCTGTTGTTTTTAGTCTCTTGTGCTGTGCCTAGTGGCACCTGGGCTGGGGAGGACACTGCCCCGTCTAGG
TTTTTATAAATGTCTTACTCAAGTTCAAACCTCCAGCCTGTGAATCAACTGTGTCTCTTTTTTGAAGTTGGTAAGC
AAGTATTAGGCTTTGGGGTGGGGGAGGTCTGTAATGTGAACAACCTTCTTGTCTTTTTTCTCCCACTGTTGTA
AATAACTTTTAAATGGCCAAACCCAGATTTGTACTTTTTTTTTTTCTAACIGCTAAAACCATCTCTCCACCT
GGTTTTACTGTAAACATTTGGAAGGAATAAATGTCGTCCCTTTTAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 153

MGSQSSKAPRGDVTAEAAAGASPAKANGQENGHVKSNGDLSPKGEGESPPVNGTDEAAGATGDAIEPAPPSQGAE
AKGEVPPKETPKKKKKFSFKKPKLSGLSFKRNRKEGGDSSASSPTEEEQEQGEIGACSDGTAQEGKAAATPE
SQEPQAKGAEASAASEEEAGPQATEPSTPSGPESGPTPASAEQNE

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FIGURE 154

GCTCCCATTTGGCTGATGTTGGCGCGAAGGTGCGCGAGTCAGCCCTCGCGCTGGGGGCGCAGGAAACAATAGAGGC
CGCGCGCACAGAGCGAGCTCTTGACGCTCCCCGCCCCCTCCGCAACGCTCGACCCAGGATTCCCCGGCTCGC
CTGCCCCCATGGCCGACAAGGAAGCAGCCTTCGACGACGCAGTGGAAGAACGAGTGATCAACGAGGAATACAAA
ATATGGAAAAAGAACACCCCTTTTCTTTATGATTGGTGATGACCCATGCTCTGGAGTGGCCAGCCTAACTGCC
CAGTGGCTTCCAGATGTAACCAGAATTTGGAGGTTTTGGTTCAGTTAGTGGAAAAATTGAAATAGAAATCAAGAT
CAACCATGAAGGAGAAGTAAACAGGGCCCCGTATATGCCCCAGAACCCTTGTATCATCGCAACAAAGACTCCTTC
CAGTGATGTTCTTTGTTTTGACTATACAAAACATCCTTCTAAACCAGATCCTTCTGGAGAGTGCAACCCAGACTT
GCGTCTCCGTGGACATCAGAAGGAAGGCTATGGGCTTTCTTGGAACCCAAATCTCAGTGGGCACCTTACTTAGTGC
TTCAGATGACCATAACCATCTGCCTGTGGGACATCAGTGCCGTTCCAAAGGAGGGAAAAGTGGTAGATGCGAAGAC
CATCTTTACAGGGCATAACGGCAGTAGTAGAAGATGTTTCTGGCATCTACTCCATGAGTCTCTGTTTGGGTCAGT
TGCTGATGATCAGAACTTATGATTTGGGATACTCGTTCAAACAATACTTCCAAACCAAGCCACTCAGTTGATGC
TCACACTGCTGAAGTGAAGTGCCTTTCTTTCAATCCTTATAGTGAGTTCATTCTTGCCACAGGATCAGCTGACAA
GACTGTTGCCTTGTGGGATCTGAGAAATCTGAAACTTAAGTTGCATTCCCTTGAGTCACATAAGGATGAAATATT
CCAGGTTTCAGTGGTCACCTCACAAATGAGACTATTTTAGCTTCCAGTGGTACTGATCGCAGACTGAATGTCTGGGA
TTTAAGTAAAATTGGAGAGGAACAATCCCCAGAAGATGCAGAAGACGGGCCACCAGAGTTGTTGTTTATTTCATGG
TGGTCATACTGCCAAGATATCTGATTTCTCCTGGAATCCCAATGAACCTTGGGTGATTTGTTCTGTATCAGAAGA
CAATATCATGCAAGTGTGGCAAATGGAGTTAGTCCTTGACCACTAGTTTGATGCCATCTCCATTTGGGTGACCT
GTTTACCAGCAGGCCTGTTACTCTCCATGACTAACTGTGTAAGTGCTTAAATGGAATAAATTGCTTTTCTACA
TAA

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FIGURE 155A

GGCTCGCATCCCCATAGTGCTGGGTTACAGTGAAGGTACGCCCCGCGCTCTGCTCTGGAGAGGCAGGGTGGGATA
GGGAACGTCTCGAGTGGCGCCCGCAGTCAATGGTGGTGTTCGTTGGCCGCCGCTCCCGGCGCTCCTAGGGCTGTT
TAAGAAGAAGGGCTCTGCCAAGGCTGAGAATGACAAACATCTAAGTGTAGGGCCTGGCCAGGGGCCAGGGTCTGC
AGTGGATGAGCACCAGGACAACGTCTTCTTTCCAGTGGGCGACCCCCCACCTGGAAGAGCTGCACACTCAGGC
CCAGGAGGGGGCTCCGCTCCCTACAACACCAAGAGAAACAGAACTGAACAAGGGTGGCTGGGACCATGGAGACAC
CCAGAGTATCCAGTCTCCCGGACGGGGCCGGATGAAGACAACATCTCCTTCTGCAGTCAGACCACATCCTACGT
GGCTGAGAGCTCCACAGCAGAGGACGCGCTCTCCATCCGCTCGGAGATGATCCAGCGCAAAGGCTCCACCTTCCG
ACCCCATGACTCATTTCCTCCAAATCTGGAAAGTCAGGGCGGCGTCCGGCGGGAGCGGCGGAGCACTGTGCTGGGACT
CCCCGAGCATGTGCAGAAGGAGCTTGGCCTGAGGAATGAGCGTGAGGCACCAGGCACGCCCCGGGCTCCTGGTGC
ACGGGATGCCGTACGCATCCCCACAGTGACGGCCGCCCGCCGAGGCACCTCAGGGATGGGGGCCCGGGTGTCCCT
GCAGGCGCTGGAGGCGGAGGCGGAGGCTGGCGCTGAGACAGAGGCCATGTGCAGCGCCACATTGACCGTGTCTA
CCGGGATGACACCTTTGTTGGCCGGTCCACGGGTACCGGGCCCCACCATTGACCCGGCCCCATGTCCCTAGCAGT
GCCTGGATTGACAGGAGGGGAGGGCCCTGCAGAGCCCCCTGAGCCCGGCCATGTCCATCTCCCCCAGGCCACCTA
CCTGTCTGAAGTTGATTCCACATGCTGTGCTGCCGCTACAGTGGACGTGGTGGCCCTAGGCCGCTGCAGCCTGCC
CACACTAAGCCGCTGCAGCCTGCACTCGGCCAGCCCAGCCCTCAGTCCGCTCGCTGGGGCGCTTCTCCTCCGTCTC
CAGCCCCACAGCCCCGACGCGCCACCCATCCTCCTCCAGTGACACCTGGAGCCACTCTCAATCCTCCGACACCAT
TGTGTCTGACGGTTCCACCCTCTCCTCTAAGGGTGGCTCTGAGGGCCAGCCGGAGAGCTCTACGGCTAGCAATAG
CGTGGTACCCCTCCCCAGGGAGGAGTGGGAGGGGCTCTCCAGTGGGGGAGCACTGCTGAGGCCTCAGACAC
ACTCAGCATTTCGAGCAGTGGGCAGTTGTCTGGCCGGAGTGTGTCCCTGCGTAAGCTGAAGCGGCTCCACCCCC
TCCCCGCCGGACCCACTCCCTCCATCAGCGGGGCTTAGCAGTGCCTGATGGGCCATTAGGGTTGCCCCCTAAGCC
TGAGCGTAAGCAGCAGCCCCAGCTGCCCTCGGCCACCCACCACTGGTGGCTCAGAAGGGGCGGGGGCAGCACCCCTG
TCCACCCAACCCAGCCAACAGCTGGGTACCTGGCTTGTCTCCGGGTGGTTCCCGGCGCCCCCAGGGTCCCCAGA
ACGGACACTTTGCCCCCTCAGTGGATACTCGAGCCAAAGTGGTACTCCACCCCTCCCTCCCAAGGGCCTGGCAGG
TCCCCCTGCTTCCCCAGGCAAGGCCAGCCCCCTAAACCAGAGCGTGTACGTCTCTTCGCTCCCCCTGGGGCCTC
CGTCTCCTCTTCCCTCAGTCTTTATGTTCCCTCCTCTGACCCAGCCCCCTCAGACCGCTCTGGGCCACAGAT
ATTGACCCCCCTGGGTGACAGGTTTGTCTACCTCCTACCCCCAAGGTGCCTGCCCCCTTCTCCCCACCTCCCTC
CAAGCCCAGGAGCCCTAACCCAGCTGCCCTGCTCTAGCCGCCCTGCTGTGGTTTCTGGGCCCTGTTCTACCAC
TGAGCCAGTCTCTAGTCCCTCCCACTCCCCAGACAACCTTGACTCCACTGCAGGAGTCTCCTGTCTCTCCAA
AGACCAGTCACCCCACCTTCCCCACCCCCATCTTATCATCCACCCCCACCACCCACTAAGAAGCCAGAGGTGGT
TGTGGAGGCACCATCTGCCTCAGAGACTGCTGAGGAGCCCTCCAAGATCCCAACTGGCCCCCTCCCCACCCCC
TGCCCCTGAGGAGCAGGACCTGTCCATGGCTGACTTCCCCCACCAGAGGAGGCTTTTTTCTGTGGCCAGCCC
TGAGCCTGCAGGCCCTTTCAGGCTCCCCAGAGCTTGTCTAGCTCCCCGGCTGCTTCGTCTCCTCAGTACTGCTTT
GCAGATTACGCCCCGGGTAGCCAGACCTCCTCCAGCTCCGCCAGCCCCAGCTCCTGCTAGTTCCGCCCCCAGG
GCATGTGGCCAAGCTCCCTCAGAAGGAACCGGTGGGCTGTAGCAAGGGTGGTGGGCCTCCAGGGAGGACGTAGG
TGCGCCCTGGTCACGCCCTCGCTCCTGCAGATGGTGGGCTGCGCTCCGTGGGTGCTCCAGGAGGGGCTCCAC
CCAGCACTGGGGCCATCGGCCCCCAGAAACCACTGCGAAGGGCCCTGTACGGGCGGGCCAGCCAGTGCCTGC
CCCCCTCCTCAGGGCTCCATGCTGCGGTCCGACTCAAGGCTGCAGCCTGGCCGCCAGTGAAGGCTCTCAAGTGC
TCAGCCCAACGGACCGCTGAGGCAGAGCCACGGCTCCCACTGCCCTGCCCTCAACGGCCAGTTTCATCTTCTC
CAAGGGCTCTAGGAAGCTGCAGCTGGAGCGGCCGTGTCCCTGAGACCCAGGCTGACCTCCAGCGGAATCTGGT
GGCAGAACTCCGGAGCATCTCAGAGCAGCGGCCACCCAGGCCCAAGAAGTACCTAAGGCTCCCCACCTGT
GGCCCGCAAGCCGTCTGTGGAGTCCCCCACCAGCTCCCAAGTTACCCTGAGCTGAGCCCCCTACTGCTCC
TCCCAACCAATGGGCTCCCTCACACCCAGGACAGGACTAAGAGGGAGCTGGCGGAGAATGGAGGTGCTCTGCAGCT
GGTGGGCCCAGAGGAGAGATGGGCCTCCCGGGCTCAGACTCACAGAAAGAGCTGGCCTGACCCAGGCACCTC
ACTGGCCTGCTGACCATCCAGAAACACAATCTCAGGGACCCGAGCAGCTCCAAGGACGAGAGGATACAGCAG
ACACAACCTAATAGAGAGGGCGCCTGCAGCTTAACCTCCACGGCCTTCGATACTTATGCAAGCCTGGTGTGCT
CCTGTCTCAGAGTCATCCTGCGCTCATGCCTTTTCCGAATGGGTTACCTCTGGCAGTTGCCGCTTCACTCTT
GGCCTTAGCCTCATCTTGAAGTGGGTAGCTGGCGGGAGAGGGTGGCTGCGCCCCCTGCTGGCCCTGAGGCTGCAG
AGTTGGGAGCAGGACACCTCACCTGAGTTTCATTTTTTCATGTCCAAACCATGCACATACTATAGTCCAGAAT

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FIGURE 155B

CAAAGCACTTTTGAAAAGTGGCTGCATGGCCATCCTCCAGGGCCCAGGAAGTTGCATTCCAAGGGCCTGTTTACA
TGGCAGCAGAATCCATCCCCGGCAGTCAGCCCATAGCTTGGGACCAGTCTGTGCCCTCCTGCCCAGTCCAGTTTA
CTCCTCTTGGTTCTGAAGGTGGCCAAGTCATTGTGTTCCACAGGCTTCTCTAGGCTGGGGGCAGGTGTGGGGC
TGTGGAATTCAAAAGCACAAAAGGTGCAGAGGGGATTGGCCTTCCCTGTGCCTCAACTCACCAACCACCCTCCTGC
CTTCCAGTTCTGCCAGGTGCTCCATGCTGGGGACAAGTAGGAGACTGCCAGGGGCCAAAGAAATGGGTGAGCAGT
AGAGTCATCTCGGGGCACCTTGGCAGTGTCAAGCACCTGCCCCTTGCCCTCCTTGACCACACTGGGGTGGGTGGGCC
CCCAGCACTTCAGAGGCAGGAGCCTTTGGGCTGAGCAAGCACTGAGGAGGTGGATGGAAGGGAGCATCTGGAGGG
GGGGAGCTTCCCTTGAGCAGTGGGGCCAGGCCTGGCCCTCCACACTTCATTCTCTGACCTTTCTCTCTCCTCATT
CGGTGCATGTCTTTCTGCAGCTGCCTTTCAGCACAGGTGGTTCCACTGGGGGCAGCTAACGCTGAGTGACAAGG
ATGGGAAGCCACAGGTGCATTTTACTCAAGTCTTCTCTAGTCAATGAGGGGCACCCAGTGCTTCTAGGGCAGGCT
GGGTGGTGGTCCCCTAGGTATCAGCCTCTCTTACTGTACTCTCCGGGAATGTTAACCTTTCTATTTTCAGCCTGT
GCCACCTGTCTAGGCAAGCTGGCTTCCCCATTGGCCCCCTGTGGGTCCACAGCAGCGTGGCTGCCCCCAGGGCCA
CQGCTTCTTTCTTGATCCTCTTTCCCTAACAGTGACTTGGGCTTGAGTCTGGCAAGGAACCTTGCTTTTAGCTTC
ACCACCAAGGAGAGAGGTTGACATGACCTCCCCGCCCCCTCACCAAGGCTGGGAACAGAGGGGATGTGGTGAGAG
CCAGGTTCCCTCTGGCCCTCTCCAGGGTGTTCCTCACTAGTCACTACTGTCTTCTCCTTGAGCTAATCAATCAAT
ATTCTTCCCTTGCTGTGGGCAGTGGAGAGTGCTGCTGGGTGTACGCTGCACCTGCCCACTGAGTTGGGGAAAGA
GGATAATCAGTGAGCACTGTTCTGCTCAGAGCTCCTGATCTACCCACCCCCTAGGATCCAGGACTGGGTCAAAG
CTGCATGAAACCAGGCCCTGGCAGCAACCTGGGAATGGCTGGAGGTGGGAGAGAACCTGACTTCTCTTTCCCTCT
CCCTCCTCCAACATTACTGGAACCTATCCTGTTAGGATCTTCTGAGCTTGTTTCCCTGCTGGGTGGGACAGAGG
ACAAAGGAGAAGGGAGGGTCTAGAAGAGGCAGCCCTTCTTGTCTCTGGGGTAAATGAGCTTGACCTAGAGTAA
ATGGAGAGACCAAAAGCCTCTGATTTTAAATTTCCATAAAATGTTAGAAGTATATATATACATATATATATTTCT
TTAAATTTTGTAGTCTTTGATATGTCTAAAAATCCATTCCTCTGCCCTGAAGCCTGAGTGAGACACATGAAGAA
AACTGTGTTTCATTTAAAGATGTTAATTAAATGATTGAAACTTG

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FIGURE 156

MVVFVGRRLPALLGLFKKKGSAKAENDKHL SVGPQGPGSAVDEHQDNVFFPSGRPPHLEELHTQAQEGRLSLQH
QEQKLNKGGWDHGDTSIQSSRTGPDENISFCSQTTSYVAESSTAEDALSIRSEMIQRKGSTFRPHDSFPKSG
KSGRRRRERRSTVLGLPQHVKELGLRNEREAPGTFRAPGARDAVRIPTVDGRPRGTSGMGARVSLQALEAEAEA
GAETEAMLQRHIDRVYRDDTFVGRSTGTRAPPLTRPMSLAVPGLTGGAGPAEPLSPAMSISPQATYLSKLIPHAV
LPPTVDVVALGRCSLRTL SRCSLHSASPASVRS LGRFSSVSSPQPRSRHPSSSSDTWSHSQSSDTIVSDGSTLSS
KGGSEGQPESTASNSVPPPPQGGSGRGSPSGGSTAEASDTLSIRSSGQLSGRSVSLRKLKRPPPPRRTHSLHQ
RGLAVPDGPLGLPPKPERKQQQLPRPPTTGGSEGAGAAPCPPNPANSWVPGLSPGGSRPPRSPERTLSPSSGY
SSQSGTPTLPPKGLAGPPASPGKAQPPKPERVTS LRSPGASVSSSLTSLCSSSSDPAPSDRSGPQILTPLGDRFV
IPPHPKVPAPFSPPPSKPRSPNPAAPALAAPAVVPGFVSTTDASPQSPPTPQTTLTPLQESPVISKDQSPPPSPP
PSYHPPPPPTKKPEVVVEAPSASETAEELQDPNWPPPPPPAPEEQDLSMADFPPPEEAFPSVASPEPAGPSGSP
ELVSSPAASSSSATALQIQPPGSPDPPPPAPPAPAPASSAPGHVAKLPQKEPVGCSKGGGPPREDVGAPLVTPSLL
QMVRLRSVGAPGGAPTPALGPSAPQKPLRRALSGRASFPVPAPSSGLHAAVRLKACSLAASEGLSSAQPNGPPEAE
PRPPQSPASTASFIFSKGSRKLQLERFVSPETQADLQRNLVAELRSISEQRPPQAPKKSPKAPPPVARKPSVGVP
PPASPSYPRAEPLTAPPTNGLPHTQDRTKRELAENGVLQLVGPPEEKMGLPGSDSQKELA

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FIGURE 157

ATGGGGGACGCTCCCAGCCCTGAAGAGAACTGCACCTTATCACCCGGAACCTGCAGGAGGTTCTGGGGGAAGAG
AAGCTGAAGGAGATACTGAAGGAGCGGGAACTTAAATTTACTGGGGAACGGCAACCACGGGCAAACCATGTG
GCTTACTTTGTGCCCATGTCAAAGATTGCAGACTTCTTAAAGGCAGGGTGTGAGGTAACAATTCTGTTTGGCGAC
CTCCACGCATACCTGGATAACATGAAAGCCCCATGGGAACTTCTAGAACTCCGAGTCAGTTACTATGAGAATGTG
ATCAAAGCAATGCTGGAGAGCATTGGTGTGCCCTTGGAGAAGCTCAAGTTCATCAAAGGCACCTGATTACCAGCTC
AGCAAAGAGTACACACTAGATGTGTACAGACTCTCCTCCGTGGTCACACAGCACGATTCCAAGAAGGCTGGAGCT
GAGGTGGTAAAGCAGGTGGAGCACCCCTTTGCTGAGTGGCCTCTTATACCCCGGACTGCAGGCTTTGGATGAAGAG
TATTTAAAAGTAGATGCCAATTTGGAGGCATTGATCAGAGAAAGATTTTCACCTTTGCAGAGAAGTACCTCCCT
GCACTTGGCTATTCAAACGGGTCCATCTGATGAATCCTATGGTTCCAGGATTAACAGGCAGCAAAATGAGCTCT
TCAGAAGAGGAGTCCAAGATTGATCTCCTTGATCGGAAGGAGGATGTGAAGAAAAAACTGAAGAAGGCCTTCTGT
GAGCCAGGAAATGTGGAGAACAATGGGGTTCTGTCTTCATCAAGCATGTCCTTTTTCCCTTAAGTCCGAGTTT
GTGATCCTACGAGATGAGAAATGGGGTGGAAACAAAACCTACACAGCTTACGTGGACCTGGAAAAGGACTTTGCT
GCTGAGGTTGTACATCCTGGAGACCTGAAGAATTCTGTTGAAGTCGCACTGAACAAGTTGCTGGATCCAATCCGG
GAAAAGTTTAATACCCCTGCCCTGAAAAAACTGGCCAGCGCTGCCTACCCAGATCCCTCAAAGCAGAAGCCAATG
GCCAAAGGCCCTGCCAAGAATTCAGAACCAGAGGAGGTATCCCATCCCGGCTGGATATCCGTGTGGGGAAAATC
ATCACTGTGGAGAAGCACCCAGATGCAGACAGCCTGTATGTAGAGAAGATTGACGTGGGGGAAGCTGAACCACGG
ACTGTGGTGAGCGGCCTGGTACAGTTCGTGCCCCAAGGAGGAACTGCAGGACAGGCTGGTAGTGGTGCTGTGCAAC
CTGAAACCCCGAGAAGATGAGAGGAGTCGAGTCCCAAGGCATGCTTCTGTGTGCTTCTATAGAAGGGATAAACCGC
CAGGTTGAACCTCTGGACCCCTCCGGCAGGCTCTGCTCCTGGTGAGCACGTGTTGTGAAGGGCTATGAAAAGGGC
CAACCAGATGAGGAGCTCAAGCCCCAAGAAGAAAGTCTTCGAGAAGTTGCAGGCTGACTTCAAATTTCTGAGGAG
TGCATCGCACAGTGAAGCAAACCAACTTCATGACCAAGCTGGGCTCCATTTCTGTAAATCGCTGAAAGGGGGG
AACATTAGCTAGCCAGCCCAGCATCTTCCCCCTTCTTCCACCACCTGAGTCATCTGCTGTCTCTCAGTCTGCTC
CATCCATCACCCATTTACCCATCTCTCAGGACA

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FIGURE 158

MGDAPSPEEKLHLITRNLQEVLGEEKLKEILKERELKIYWGTTATGKPHVAYFVPMSKIADFLKAGCEVTILFAD
LHAYLDNMKAPWELLELRVSYENVIKAMLESIGVPLEKLKFIKGTDYQLSKEYTLDVYRLSSVVTQHDSKKAGA
EVVKQVEHPLLSGLLYPGLQALDEEYLKVDAQFGGIDQRKIFTFAEKYLPALGYSKRVHLMNPMVPGLTGSKMSS
SEESKIDLLDRKEDVKKLKKAFCEPGNVENNGVLSFIKHVLFPLKSEFVILRDEKWGGNKTYTAYVDLEKDFA
AEVVHFGDLKNSVEVALNKLLDPIREKFNTPALKKLASAAYPDPSKQKPMAGPAKNSEPEEVIPSRLDIRVGKI
ITVEKHDPADSLYVEKIDVGEAEPRTVVSGLVQFVPKEELQDRLVVVLCNLKPQKMRGVESQGMLLCASIEGINR
QVEPLDPPAGSAPGEHVVFVKGYEKGQPDEELPKKKKVFEKLQADFKISEECTAQWKQTNFMTKLGSISCKSLKGG
NIS

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FIGURE 159

GC GCGAGCAAGATGGCCACCACCAAGCGCGTCTTGTACGTGGGTGGACTGGCAGAGGAAGTGGACGACAAAGTTC
TTCATGCTGCGTTCATTCCCTTTTGGAGACATCACAGATATTCAGATTCCCTCTGGATTATGAAACAGAAAAGCACC
GAGGATTTGCTTTTGTGAATTTGAGTTGGCAGAGGATGCTGCAGCAGCTATCGACAACATGAATGAATCTGAGC
TTTTTGGACGTACAATTCGTGTCAATTTGGCCAAACCAATGAGAATTAAGGAAGGCTCTTCCAGGCCAGTTTGGT
CAGATGATGACTGGTTGAAGAAGTTTTCTGGGAAGACGCTTGAAGAGAATAAAGAGGAAGAAGGGTCAGAGCCTC
CCAAAGCAGAGACCCAGGAGGGAGAGCCCATTTGCTAAAAAGGCCGCTCAAATCCTCAGGTGTACATGGACATCA
AGATTGGGAACAAGCCGGCTGGCCGCATCCAGATGCTCCTGCGTTCTGATGTCGTGCCCATGACAGCAGAGAATT
TCCGCTGCCTGTGCACTCATGAAAAGGGCTTTGGCTTTAAGGGAAGCAGCTTCCACCGCATCATCCCCAGTTCA
TGTGCCAGGGCGGTGATTTCACAAACCACAATGGCACTGGGGGCAAGTCCATCTATGGGAAGAAGTTCGATGATG
AAAACTTTATCCTCAAGCATACGGGACCAGGTCTACTATCCATGGCCAACCTCTGGCCCAAACACCAATGGCTCTC
AGTTCTTCTGACATGTGACAAGACAGACTGGCTGGATGGCAAGCATGTGGTGTGTTGGAGAGGTCACCGAAGGCC
TAGATGTCTTGCGGCAAATTGAGGCCAGGGCAGCAAGGACGGGAAGCCAAAGCAGAAGGTGATCATCQCCGACT
GTGGGGAGTACGTGTGAGGCGGCACTCTCTGCTTCCCCCTCCGCTCTTGACCCGTCATATCCAGGAAGGAAC
GCCAGCCTCAGAGGAGGCAGCACCGAGGGTGCCTGTTTGAAGCAAGCAGCATTGGGATATGTGCCCTTCCTCAG
GGTCTGCTTGGAGCAGCTCCTCTGCAGGCACAGCCTGGACTATTCCAGGCACAGCTGTGGGCCAGGAGCCAGC
TCAGGTGCTCCCCTCCACCATGGGCAGGCTGTGCAAAAAGCCACTGGCTTTTCTCAGCATTGCTGCTGGGCCT
CTCCTGGGACTACCAGTGTGGCTCTTACGTGTTTTCTTTGCTAAAATAAACCCCTAGTTCTTATATTAAAAAAA
AAAAAAA

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FIGURE 160

MATTKRVLYVGGLAEVDDKVLHAAFIPFGDITDIQIPLDYETEKHRGFAFVEFELAEDAAAAIDNMNESELFGR
TIRVNLAKPMRIKEGSSRPVWSDDDLKKFSGKTLEENKEEEGSEPPKAETQEGEPIAKKARSNPQVYMDIKIGN
KPAGRIQMLLRSDVVPMTAENFRCLCTHEKGFGFKGSSFHRIIPQFMCQGGFTNHNGTGGKSIYGKKFDDENFI
LKHTGPGLLSMANS GPNTNGSQFFLTCDKTDWLDGKHVVFGEVTEGLDVLRQIEAQGSKDGKPKQKVIIADCGEY
V

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FIGURE 161

TCAAAGCACCTGCAGCCCCAATTTGTGATCCAGCAGCAGCCACAGCCACAACAGCAGCAGCCGCCGCCAGCAG
TCACGGCCTGTGCTCCAAGCTGAGCCCCACCCAGCTCGCCTCAGTCTCTCCAAGCGTGGCCCTCCAGCCCAGC
TCAGAGGCCCATGCCATGCCACTAGGCCCGGTTACACCCGCCCTGCCACTCCAGTGTCCCACTGCCAACCTGCAC
AAGCCTGGCGGCAGTCAGCAGTGTACCCCTCCACACCTGATACTGGGCCTCAGAATGGACATCCCGAGGGCGTG
CCCCACACCCCTCAACGCAGGTTCCAGCACACTTCAGTGTCTTACAACCTGCAGCCTGCTTACCAGTGCCC
CAGCAGTGTGTCCCTGATGACTGGAAAGAAGTGGCACCAGGGGAGAAAAGTGTGCCTGAGACGCGGTCTGGCCCA
TCACCACATCAGCAGGCTATTGTCACTGCCATGCCTGGTGGCCTGCCTGTACCCACGAGCCCTAACATCCAGCCG
TCCCCAGCTCACGAGACAGGGCAGGGCATTGTTTATGCACTGACCGACCTCAGCAGCCCCGGCATGACCTCAGGG
AACGGAAACTGTGCCTCCAGCATCGCCGGCAGTGGCCCCCAGAATGGTGAGAATAAACACACAGGCCATTGTG
AAACCCCAAATCCTGACGCATGTTATCGAAGGGTTTGTGATCCAGGAGGGGGCGAGCCTTTCCGGTGGGACGC
TCGTCCCTGCTGGTGGGGAATCTCAAGAAGAAGTATGCACAGGGGTTCTGCCTGAGAACTTCCACAGCAGGAT
CACACCACCACCTGACTCGGAGATGGAGGAGCCCTATCTGCAAGAATCCAAAGAGGAGGGTGCTCCCTCAA
CTCAAGTGTGAGCTCTGTGGCCGGGTGGACTTTGCCATATAAGTTCAAGCGTTCCAAGCGCTTCTGTTCCATGGCT
TGTGCAAAGAGGTACAACGTGGGATGCACCAAACGGGTGGGACTTTTCCACTCAGACCGGAGCAAGCTGCAGAAG
GCAGGAGCTGCGACCCACAACCGCGTCGGGCCAGCAAAGCCAGTCTGCCACCACTTACCAAGGATACCAAGAAG
CAGCCAACAGGCACTGTGCCCTTTTCGGTTACTGTGCTTTGCAGCTAACACACAGCCAGGAAGACTCCAGCCGT
TGCTCAGATAACTCAAGCTATGAGGAACCTTGTCAACCATCTCAGCCAGCTCATCTACTTCCCGCCGGCGACAA
GGCCAGCGGGACCTGGAGCTCCCCGACATGCATATGCGGGACCTGGTGGGCATGGGACCACTTCTTCCCAAGT
GAGCCCACCAAGTGGGAATGTAGAAGAGTCTACGAATTCATCCGCTCTCTGCCAGGCTGCCAGGAGATCAGCAG
GAATTCGGTGGCCAGGAAATCGACGGGCAAGCCCTGTGCTGTCTCAAGGAGGACCACCTGATGAGCGCCATGAAC
ATCAAGCTGGGGCCCGCCCTGAAGATCTACGCCCGCATCAGCATGCTCAAGGACTCCTAGGGCTGGTGGCAGCCA
GGATTCTGGCCAGGGCGCCTCTCTCCGACTGAGCAGAGCCAGACAGACATTCTGAGGGGCCAGAAATGGGGC
CGGTTGGAGGGCAGGGGCTCTCCCTAGGGGCATAGCTGGTGAGGAGSTCTGGGCACCTCTCCATGGCTCTCAGG
CGCCTTTTCAATTTCTGTGGGAGGGGCAGAGAGGTAGGTGGCACAGAAGATGGGGCTTTATGCTTGTAATATTGAT
AGCACTGGCTTCTTCCAAAGTCCCAATACTCTAGCCCCGCTCTCTTCCCTCTTTCTGTCCCCATTTTCCAGGG
GGTATATGGTCAGGGCTCCCCAACCTGAGTTGGGTTACTTCAAGGGCAGCCAGCAGGCCTGGATGGAGGCCTAGA
AAGCCCTTGCCTTCTTCTCCCACTTCTTCTCCAGGCCTGGTTAACTCTTCCGTTGTACGCTTCTCCCCCTTC
AGCCTGTTTCTGCAGCAGCCAGGGTTCTCCCCCTACACCTCTGCAGGTGGAGAGAGAGAAGCTGGGCCAGCC
GGGCGGTGCCTGCTGGCACAGACGCCTTAACGCTGTGTGTATGACTGTGTGGGAGCCTGGACTGACA
GATAGGCCAAGGGCTACTCTCTGGCATCTCCAGGTGTTTTGTAGCAAACAGCCACTTAGTGCTTTGTCTGGACT
CCACTCAGCCTCAGGATGGGGAATAGCCAAGAATGGCAGCCTCAGCGCAGAGGCAAGGTGAGAAAGAGACGGCGC
TTCAGAGTTTCTTTCCAGACACCCCTCCCCGCACTGTGAAGTTCCCCTGACCGCCCTCTGGTTCAAAAGAGC
ATTAAGAAAGCTGCGGTGGTCTGAGCAACATAGCCCAAAGGGCTGAGCCTCCTGGCCTGCCTGCCCCACCCT
GGGAGTCCCAGTGGTGGGCTCAGAGAAGTCTAAGGGGAAAGAACAGCTGGAGTTTCTGTTGATGTGAAGAAGG
CAGCTCTTGGCCTCCCACTCCACACTTCTTTGCCTATAAATCTTCTTAGCAGCAATTTGAGCTACCTGAGGAGG
AGGCAGGGCAGAAAGGGCGAGGGCTGCCTCTGACCTGCCGTGCTCTTTGCAGGAAGGAGGTAGGCACCTTTCTG
AGCTTATTCTATTCCCCACCCACACCCCGAGGGTTGGAATGAAGGACTTTTTTAACCTTTGTTTTGTTTT
TAAAAATAAATCTGTAAATCTG

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FIGURE 162

ME LGPVTPALPLQCPTANLHKPGGSQQCHPPTPDTGFPQNGHPEGVPHTPQRRFQHTSAVILQLQPASPVPQQCVP
DDWKEVAPGEKSVPETRSGPSPHQQAIVTAMPGGLPVPTSPNIQPSPAHETGQGIVHALTDLSSPGMTSGNGNSA
SSIAGTAPQNGENKPPQAIVKPQILTHVIEGFVIEGAEPFPVGRSSLLVGNLKKKYAQGFLEKLPQQDHTTTT
DSEMEEPYLQESKEEGAPLKLKCELCGRVDFAYKFKRSKRFCSMACAKRYNVGCTKRVGLFHSDRSKLQKAGAAT
HNRRRASKASLPPLTKDTKKQPTGTVP LSVTAALQLTHSQEDSSRCS DNSSYEELSPISASSSTSRRRQGQRDL
ELPDMHMRDLVGMGHHFLPSEPTKWNVEDVYEFIRSLPGCQEIAEEFRAQEIDGQALLLLKEDHLMSAMNIKLG
ALKIYARISMLKDS

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FIGURE 163

AGACAAGGCAAATTTAAGTAGGCTCATGGCTTTTCCAGTTGGGTTGGAAAGTTCCTCTCCGATGACTGTTATATT
CTCAAAGAAATATGAGGAGAGGGGCAGGGCATGGTGGCTCACATCCGTAATCCTAGCAAATCATAGTGGCCTACA
GCCAACGCCTTCTTCGCTCACTGGCCAAC TGAAACTTCAGTCCCCCATGCCTCCCGCCTCTCACCCAGGGGCC
AATAGGAATGATCAGAGGTTGCAACTTAGTGTCATCAAGCATAGTAATTGCAATTGGCTATTGGAGCTGTGAT
CGTGGAGTAGGCGGGGCCGTGCCAGCTGGCCTATATAAGACGAGGACAAAGGCGGCGCGCCGCTGTGTCATCCG
CCATTTTGTGAGAAGCAAGGTGGCCTCCACGTTTCCTGAGCGTCTTCTTCGCTTTTGCCCTCGACCGCCCTTGAC
CACAGACATGTCTCGGGATCGGTTCCGGAGTCGTGGCGGTGGCGGTGGTGGCTTCCACAGGCGTGGAGGAGGCGG
CGGCCGCGGCGGCCTCCACGACTTCCGTTCTCCGCCGCCGGCATGGGCCTCAATCAGAATCGCGGCCAGGCCCG
ACTCCGACCCCGCCGCTGCAGTCACCTCGGCCCCCTCCGGGGCGCGGCCACCCACCCGCCAAGCAGCGGGGTC
CCTACCACACCTCCTCAGGCCGGAGGCCCGCCGCTCCGCCCGCGGCAGTCCGGGGCCCGGGTCCAGGGCCTAAG
CAGGGCCCAGGTCCGGGTGGTCCCAAAGGCGGCAAAATGCCTGGCGGGCCGAAGCCAGGTGGCGGCCCGGGCCTA
AGTACGCTTGGCGGCCACCCCAAGCCGCCGCATCGAGGCGCGGGGAGCCCCGCGGGGGCCGCCAGCACCCCG
CCCTACCACCAGCAGCATCACCAGGGGCCCCCGCCGGCGGGCCCGCGGCCGCAGCGAGGAGAAGATCTCGGAC
TCGGAG

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FIGURE 164

MAFPVGLESSSPMTVIFSKKYEERGRAWWLTSVILANHSGLQPTPSSLTGQLETSVPPCLPPLTQGPIMIRGSQ
LSVIKHSNCNWLELSIVE

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FIGURE 165

GGCGAGCAGTCTGCGCGCGGATGGCCGCGAGCGCGCATGGCGGCAGCGGCAGGTGGAGGGGCTGGCGCGGCCCCGCT
CCCTCTCGCGCTTCCGAGGCTGCCCTGGCTGGTGCCTGCTCGGGGACTGCGTGGGCTCCTTCTACGAGGCCACG
ACACCGTCGACCTGACGTACGTCTGCGTCATGTCCAGAGTCTGGAGCCGGACCCCGGCACGCCCGGGAGTGAGC
GGACAGAAGCCTTGTAACACAGATGACACAGCCATGGCCAGGGCCCTGGTGCAGTCCCTGCTAGCCAAGGAGG
CCTTTGACGAGGTGGACATGGCTCACAGATTTGCTCAGGAGTACAAGAAAGACCCTGACAGGGGCTATGGTGCTG
GAGTAGTCACTGTCTTCAAGAAGCTCCTGAACCCCAAATGTCGCGATGTCTTTGAGCCTGCCCCGGGCCAGTTTA
ACGGGAAAGGCTCCTATGGCAATGGAGGTGCCATGCGGGTGGCTGGCATCTCCCTGGCCTATAGCAGTGTCCAGG
ATGTGCAGAAGTTTGCCCGGCTCTCGGCCAGCTGACACACGCCCTCCCTGGGTTACAATGGCGCCATCCTGC
AGGCCCTGGCTGTGCACCTGGCCTTGAGGGCGAGTCTTCCAGCGAGCACTTTCTCAAGCAACTCCTGGGCCACA
TGGAGGATCTGGAGGGTGATGCCAGTCCGCTTGGATGCCAGGGAGTTGGGCATGGAGGAGCGTCCATACTCCA
GCCGCTGAAGAAGATTGGAGAGCTTCTAGACCAGGCATCGGTGACCAGGGAGGAAGTGGTGTCTGAGCTAGGGA
ATGGCATTGCTGCCTTTGAGTCGGTACCCACCGCCATCTACTGCTTCCCTACGCTGCATGGAGCCAGACCCTGAGA
TCCCTTCTGCCTTCAATAGCCTCCAAAGGACTCTCATTTATTCCATCTCACTTGGTGGGGACACAGACACCATTG
CCACCATGGCTGGGGCCATTGCTGGTGCCTACTATGGGATGGATCAGGTGCCAGAGAGCTGGCAGCAAAGCTGTG
AAGGCTACGAGGAGACAGACATCCTGGCCCCAAAGCCTGCACCGTGTCTTCCAGAAGAGTTGATGAGGGCTACAGC
TGTTGGGGCTCTGCCAGGTCCCTGGGACCAACTACAGCTCCAATCAGAAACCCTGCGCTTCCCTGAGTGTGGCT
TCCCACTTTTCTGCTATTGTGGAGCTGACTGAGTACACCGGTGAGGCTGGGGTCTCTGCAGGGGAGGTCACTGGA
ACAGCGAGCAAGGGACTGGTGCCTCGCTGGTGTGGGTCTCTGGTTTGTGTCAGAGCCGTAGGACACTCCTGGCT
CCTCAGTAGGACAGACAGACGCGAGGCGGGTTTATTTTGGAGGGTACTTGTGGCATTTCCTGTATTGCTTGGGA
CATGGGATGTGGGGAGGTGGAAATGATGAGCAGTAGCATATTTCTCCCTGTTGGGTTTATGCCAGTTTGCCAGC
AAGCGCATCCTAGCAGGGTCCCGAGCAGCAGGTTGTGTGGATGAAGGGACAGGCACCTGCATCCAGCTGATCTA
GGTCACACCTGGCTCTTGGCTGCCATGTGGCTTATTAACAGCTTCCAGTGGAAGTCGCAATAAACAGTTTTTGGT
AAATCTCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 166

MAAAAMAAAAGGGAGAARSLSRFRGCLAGALLGDCVGSFYEAHDTVDLTSVLRHVQSLEPDPGTPGSERTEALYY
TDDTAMARALVQSLLAKEAFDEVDMHRFAQEYKKDPDRGYGAGVVTVFKLLNPKCRDVFEPARAFNGKGSYG
NGGAMRVAGISLAYSSVQDVQKFARLSAQLTHASSLGYNGAILQALAVHLALQGESSEHFLKQLLGHMEDLEGD
AQSVDARELGMEERPYSRLKKIGELLDQASVTREEVVSELGNGIAAFESVPTAIYCFLRCMEPDPEIPSAFNS
LQRTLIYSISLGGDDTIATMAGAIAGAYYGMDQVPESWQQSCEGYEETDILAQSLHRVFKS

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FIGURE 167

CCGTGGCTAGGCGAGTGGGGCGGGCGGGCCGGCACCATGTCGAGGCAGGCGAACCGTGGCACCGAGAGCAAGAAA
ATGAGCTCTGAGCTCTTCACCCTGACCTATGGTGCCCTGGTCACCCAGCTATGTAAGGACTATGAAAATGATGAA
GATGTGAATAAACAGCTGGACAAAATGGGCTTTAACATTGGAGTCCGGCTGATTGAAGATTCTTGGCTCGGTCA
AATGTTGGGAGGTGCCATGACTTTCGGGAAACTGCGGATGTCATTGCCAAGGTGGCGTTCAAGATGTACTTGGGC
ATCACTCCAAGCATTACTAATTGGAGCCCAGCTGGTGATGAATTCTCCCTCATTTTGGAAAAAACCCTTGGTG
GACTTGTGGAACCTCCTGATAACCACTCATCCCTTATTTATTCCAATCTCTGTGTGGGGTGTTCGCGGGAGCT
TTGGAGATGGTCCAGATGGCTGTGGAGGCCAAGTTTGTCCAGGACACCCTGAAAGGAGACGGTGTGACAGAAATC
CGGATGAGATTTCATCAGGCGGATTGAGGACAATCTTCAGCTGGAGAGGAATTAACCATCCCTACAACCTCGAGGAT
AGCCATCAGGAGCACTGTTGGAATCAGCAGGCCTCTGTGCTCCCTCTGCCCTCCAGAACTCAGTGACTCTTGAAC
ATGGATGTTATATATTCTTATAACCTGTTTCCATTCTCCATTCAAATAAAGAGCAGACTGCGATATAGTCCATT
ACCCCATGTGTGCACATTCAGGAGCGACAGTCTCTGCCCCCATTCCTTGAGAGGGGCTGGATGTAATCACCTTT
GGTIGGACTAGAAAGAGCTCAAACCATTTTACATTCTGTGTTGAATTTTCCAAAGCAAACTCACTTTGACCCCA
TTAAGAGGCAAGCCTGGCACATCTATCCCTGGGCCTTTAGAAAGCCATTTGCCTCAAATGGCTATAGGGTTGTGG
GGTGGAGGGAGGAAGGGCTGGGAGGGAGTGGGGAGGAATTGCTAGCTGTAGTGTGACACATTGTAGTGTGTTGCCA
GGAAAGGAGCCAGTCATGCCGAAACACTGACTTCTGGGAAGCCACCCAGGTCTCATTCCCTCCCTGCTGTTGGAG
GCAACATCTCTCTTTTTTACAGAGGGTACATCCTTTTTTCTTACAAATTCTTCAATAAAGACACATTCTTGAGTG
AAATCCCTAAAAA

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FIGURE 168

MSRQANRGTESKKMSSELF¹TLTYGALVTQLCKDYENDEDV²NKQLDKMGFNIGVRLIEDFLARSNVGRCHDFRETA³
DVI⁴AKVAFKMYLGITPSITNWSPAGDEFSLILENNPLVDFVELPDNHSSLIYSNLLCGVLRGALEMVQMAVEAKF⁵
VQDTLKGDGVTEIRMRFIRRIEDNLPAGEE⁶

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FIGURE 169A

ACTTACTTATTGGAGGCAGTGGGACAGCGCAGGACAGGCCAGGGCCGCCGACCCCTGGCAATGACTGTCAACAGCTG
GAGGGAAGAGCTGAGAATGAAGCGGAGAGCATCAGACAGAGGAGCTGGGGAAACGTCGGCCAGGGCCAAAGGCTCT
AGGAAGTGGGATTTCTGGAAATAATGCAAAGAGAGCTGGACCATTATCCTTGGTCCCCGCTCTGGGCAACTCACC
GGTGCCAAGCATAGTGCAGTGT TTGGCGAGGAAAGATGGCACGGATGACTTCTATCAGCTGAAGATCCTGACCCT
GGAGGAGAGGGGGGACCAAGGCATAGAGAGCCAGGAAGAGCGGCAGGGCAAGATGCTGCTGCACACCGAGTACTC
ACTGCTGTCTCTCCTGCACACGCAGGATGGCGTGGTGCACCACCACGGCCTCTTCCAGGACCGCACCTGTGAAAT
CGTTGAGGACACAGAATCCAGCCGGATGGTTAAGAAGATGAAGAAGCGCATCTGCCTCGTCTCTGGACTGCCTCTG
TGCTCATGACTTCAGCGATAAGACCGCTGACCTCATCAACCTGCAGCACTACGTCATCAAGGAGAAGAGGCTCAG
CGAGAGGGAGACTGTGGTAATCTTCTACGACGTGGTCCGCGTGGTGGAGGGCCCTGCACCAGAAAAATATCGTGCA
CAGAGACCTGAAGCTGGGGAACATGGTGCTCAACAAGAGGACACATCGGATAACCATCACCAACTTCTGCCTCGG
GAAGCATCTGGTGAGCGAGGGGGACCTGCTGAAGGACCAGAGAGGGAGCCCTGCCTACATCAGTCCCGACGTGCT
CAGCGGCCGGCCGTACCGTGGCAAGCCAGTGACATGTGGGCCCTGGGCGTGGTGTCTTCCACATGCTGTATGG
CCAGTTCCTCTTCTACGACAGCATCCCGCAGGAGCTCTTCCGCAAGATCAAGGCTGCCGAGTATACCATTCCTGA
GGATGGACGGGTTTCTGAGAACACCGTGTGTCTCATCCGGAAGCTGCTGGTCTTGAACCCACAGCAGCGCTGGC
CGCCGCCGACGTCTTGAGGGCCCTCAGTGCCATCATTGCATCATGGCAGTCCCTGTCTCTGAGTGGGCCTTT
GCAAGTGGTTCTGACATTGATGACCAATGAGCAATGCGGATAGCTCCAGGAGGTGAGTTGGGGAGGGCAGAT
GGGCCATTACCCAGCCCCAAGGGACAGGCTTCTGGGGGCAGGCAGGGCAAGGGCAGAGGTGGCAGCTACCCGAG
GCCACAGAGTTTCTTGGTCTTCTTCCCCAGCCTTGGGGTGGGAAAGGGAGACTCAGTCTCTAGCCTGAGCTGC
CTGGGGCCTGCCTTGGGCTTGGTGTAGCTGGAGATCTTTGGCCAGAGAGACCTGTGAGACAGCCGAGCTGGAGCC
AGTGCCCAAGTGGCCAGGCCAGCCCTCTCAGCTTCTCTCTGCTGCCCAAGTACATTTCTCTGCCCCCTGACTC
AGAGTTCTCTCTCACCTTCTCTGCTTTTCATTTTTTCAGATGATTCATTTCTCCCTATTTCTTTCTCCCATTC
CTGCACTGGAGAAAGTGTGGGCCTAGGGTGGGGGCAGAGACTTGGGCACCAGGCAGCAGAGGGCAGGTGATCTT
AGGGTGCCCCCTGGAGGGCAGGGCTTGGCCGAGCAACAGCATTGCTGGGCCCTGGATATTGGAAGGACCTTCCCT
CCCTGGCCACCTTGAGAGCTCCACAGTGAGCAGTGTGCAGGTAGGACCAGGAGGGGCCGTGCCTGGGAGAGCCTC
CCAGAGCCTCCTGGCCCCGAGGAAAGAGAGTTCCAATCCCTACCCACCTCCAGCTTCCACCTTTAGCTGTTTG
GCTAAAATCATCATCACTAGCCCGCAGTGAGTGCCTACCCCGAGGGCACCTCATTACAGCCCTCACTGCGGGCCTG
CGTGGCCTGTGTTCTTAGCCCCATGTTACAGAAGAGGAAACAGGGTTAGAGAGGACTTTCCCAAAGCCACACAGC
TTAGAAGTAGTGGAGCTAAGCCTTGAACCCAAGTCTCATCCGGAAGCCCTGCTGTCTCCTGTGGTGACTGGCACG
GGGACACCACTTCAGCTTCTGTTACCATCTGCCTAGACCATCCAGGGAGCTCAGCATGGGGCCCTGCGTATGTG
GCTCCTCCAGGTGCTGCGCCCCCAGCCCAGGGCTTGCTCGTACCTCTTGACGTGCATTAGCCGCCCTCAGGGCTCA
GAGAACCTTTGCGAGGGGCCAGACAGCTAAGGCTTCTGAGGTAAAGTGACCTCTCACGCAGCCAGTGAGTTAGGA
AGCATGAGTCTGCGTCAGTCCCGGTCCGAGGGCGGCCTGCAAGGGGAGTTGAGGTTGGCTGGAGGGGGTCAGG
GACCCACCTCAGCGCCACTCCCACCCCGGCCTTGAGGCCTGAGGGTGTGGTGCCTGGAAGGGTGACTGCAGGA
GCCAGGCTGCCAGCACTCTTGCTGCCCCCTCTGTCTGCTGCGCTGCCTTCATCTGGGTTTATCTTTGTCTCCTTC
CCACCTTCCCGCCTCAAAGGCGAAGGTGACGGAGGAGTGCTCCAGTACGAGTTTGAGAACTACATGCGTCAGC
AGCTGCTGTGTCGCGAGGAGAAGAGCTCCATCCATGACGCCCGGAGCTGGGTACCAAGCGGCAGTTCGGCAGCG
CACCACCGGTGCGACGGCTGGGCCACGACGCACAGCCCATGACCTCCTTGGACACGGCCATCTGGCGCAGCGCT
ACCTGCGGAAATAACAGCCTCAGCCGGGGCCACCAGCACTGCTGCCACTTCTTCCAGCCCCAGCCAAAGCGGTGG
CTGTACAGGGCTGGGCCCTGTAGTGTGACTCTCCCGGGCCACAATAGGGACAGGGCAGGGACAGGGACAGCCCA
GGTCACACGTGGGGTCAGCAGAGGTACCACGAAGCTACCTTTTGGGATGATTGCTCGATTGTTTGGTTTTTAAT
CTGAGAAGCCTAGATAACTATCTGCTTTTAATCACGATGTTTTAATCTACCTCTGTCTCTTTAACCATGCTGTCT
TCTGGAAGTGTGAGCAAGAGGAGGAGGGAGCCTGCTCAGGCCACTCCAGGGCCTTCCCCAGCGGCCACCAACTGACC
TGGGGCGCTGCTCCCCACAGTCCAAATAAGCTGAAAGTGACAGCTCGCTGCAGGCCCCAGAGCGAGCTTCCCCTCC
TCCCTGCTCTCCACAGGCCCTGCCACAGCCTCTTTCCGTCCCTCTCTTTCTGATCCAGGCCCTCAGTCCAAGCT
TTGGAACACCTTACCTCATCTTAAACGGAAGTCAAATAATTTATTTTACCATACCAACTCTCTCCCATC
TCTAGGTGGCTCAGTCCATGGCCACTCCCTGCCCCCAGCCTGGCTGGACAGCAAGGAATCCACAGCCACACAGT
AGCTCCCTCCTCACCCCCAGGCAGGGAAGCCCCCTCTGCCAGTCCCTGTCCCTTTACAGCCACAGTCCCTCTC
TGCTGCCGGTGTATGGGAGGCCCTTTCTAGACCTGGCTCTTTCTCTCCGCTCTCAGTGGCTTCTCTGAGGTGCTGT

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FIGURE 169B

CACGCGCGTTAACCTGTTCCCTTCTCTATCCTTCCCCGTGGTACTGAGCTCACGTGGACTCCCAGTGCGAAGGGG
CCCATGGGTTGGGCTGCAGGCCTGGCCGTGAGCGGGGGCTGCCTGCACGCTCCCCTAGCCTACTCTTGTGTTTAG
GGGATGGTGGGAACATATCCCAGTGCCCTTGCCCTCATAATAGATGTGGTGACTCTCCCGGTAGACCCTAGCAAGG
GTCTCTCATGGTGGTGAGGGACTCAGGAGAATTGTAGGGATTGGGGGACCCTGCCTGCCTGGCTTGAGAACAGCC
CTGCTGCCCTTTTGAGCCGAGATTTTGAAGTGGATGCCCGTCTTGCCAGAAATGCTGTTCTCACCAGAATGCCCC
CTCCCCTTGCCCTTACTGGACTTGCCCTGCCTGATGCCAAGCAAAGACCCTTCCCCAGAGGCCTACCCCCATA
TGTCCTCAGAGAGGCTGAGTGTCCCTCCAGGCAGTCATGGGCCCTGAGGCCCTCCTGCCTGGCCCTGCTCCCC
AGTGGGGAGGTGACTGTGTTTTCCAGAGTGTGAGCCGCTCTCCTCCCCCTAAAAAGCTGACTCACTGTGAGTGAC
CTTGGGCAAGTTCCCAAACCTCCTTGTCCTCAGTTTCCCCATCTGGAAAAATGGGGCCACCTCTTGCCAGCAG
TAGCAGGGCTGCCCACGCCCCCTTCTCCCCATGCCCCATCCAGCACTTGGGCGACTCATGCCTCTGCCTCAGTGG
GCCTGTGGGAGCCTACTGGAGCCCAGCACTTACTCCCCCTGAGCAGCGAGCCTGCGTCTGTCTCAGCTGTCCAGC
GCTGAGGGCCAGGGTCTTGTGCTGTGGGGCTGGGGGATGCCCTCTTTTCTATATTTATTTCATAGAAAGTCTCCT
GCGGGAGCGGAAATGCAGTCCGGCCTAGGGCTCCCAGCCCTTGAAGTCTCCTCCTGTGAGGGCCTGAAGCTGGGCC
AGGGCCCGTCGCAGCGGAGCCCCCTCTCAGCAGCCCACCGGGTCCCTCCAGGCTGCTGCCCGTGGTGGTCTTTC
TCCTCCTTTTCAAAGCAATAGCCGCCGGGTCTGCAAAGCCCTGTCAGACAGACTGGGCCCTTCCAAGGTCAAGCC
ATGTGTCTGATGACATTCTTGGTGAAGCAAAGGAGAGGAGGATGGGTGAGCCCTCACTGGGTGTCACACACTGAG
AGAAGTCCTATTGTAAAGAAACGGAAAAAGTCACAAAAAAGTTTGTATAAAGACATATTTTGTACTACATGGGG
ACTCTTCTGCATGTCAGCAATAAACTTCTGATCTGG

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FIGURE 170

MKRRASDRGAGETSARAKALGSGISGNNAKRAGPFILGPRLGNSPVPSIVQCLARKDGTDDFYQLKILITLEERGD
QGIESQEERQGKMLLHTEYSLLSLLHTQDGVVHHGLFQDRTCEIVEDTESSRMVKMKKKRICLVLDCLCAHDFS
DKTADLINLQHYVIKEKRLSERETVVIFYDVVRVVEALHQKNIVHRDLKLGNMVLNKRTHRITITNFCLGKHLVS
EGDLLKDQRGSPAYISPDVLSGRPYRGKPSDMWALGVVLFMTLYGQFFYDSIPQELFRKIKAAEYTIPEDGRVS
ENTVCLIRKLLVLDPPQRLAAADVLEALSIIASWQSLSSLSGPIQVVPDIDDQMSNADSSQEVSWGGQMGHYP
PRDRLLGAGRARA EVAATRRPQSFLGLLPQPWGGKGRLOSSA

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FIGURE 171

ATTGGGACGCTGCGGCCTGGCCTTCAGGCCACTGGCTACCGAACCCCGGGGCTCTTCACCAGTCCAGCTCGTTTC
CAGCACCAATGTCCGTGCGGACGCTACCGTGCTCTTCTTGAAGTTGGGCGGGGAGATGCTTTACATCCTCGACCA
ACGGCTGCGGGCCCAGAACATCCCGGAGACAAGGCCCGCAAAGTTCTGAATGACATCATCTCCACCATGTTCAA
TAGAAAGTTTATGGAGGAATTATTCAAGCCTCAAGAGCTCTACTCCAAGAAGGCCCTGAGGACTGTCTATGAGCG
CCTGGCTCATGCCTCCATTATGAACTGAACCAGGCCAGCATGGATAAGCTCTATGACCTGATGACCATGGCTTT
CAAATATCAAGTATTGCTGTGTCCCCGACCCAAGGATGTGCTGCTGGTCACTTTCAATCACTTGGATAACCATCAA
GGGATTTCATCCGAGACTCCCCAACCATCCTGCAGCAAGTGGACGAGACTTTGCGGCAGCTGACAGAAATATATGG
TGGTCTCTCTGCAGGGGAGTTCCAGCTGATCCGGCAGACACTCCTCATCTTCTTCCAAGACCTGCACATCCGAGT
ATCCATGTTTCTAAAGGACAAAGTTCAGAATAATAACGGTCGCTTTGTGTTGCCGGTGTCCGGGCCTGTTCTTG
GGGAAGTGAAGTTCCAGGACTCATCAGAATGTTCAACAACAAAGGTGAAGAAGTGAAGAGGATAGAATTCAAGCA
TGGTGGAACTATGTCCCTGCACCCAAGAAGGTTCTTTTGAAGTTTATGGAGACCGAGTCTGAACTGGGAAC
TAACATGTACAGCGTGAATCAGCCTGTGGAACTCATGTGTCTGGATCATCAAAGAACTTAGCCTCATGGACCCA
GGAAAGCATTGCTCCAAACCTCTTGCTAAAGAAGAGCTGAATTTCTTGGCCAGGCTGATGGGAGGGATGGAGAT
TAAGAAACCCAGTGGCCCTGAGCCCAGATTCCGGTTGAATCTCTTTACCACCGATGAAGAAGAGGAACAAGCAGC
GCTAACCAGGCCAGAAGAGTTATCCTATGAAGTTATCAACATACAAGCCACCCAGTCTCTTTTCAGCAATCTGGC
CACCATTCAAGGGGGGCCTGACTGGGTGACAGATGAATGGGAAGGTTCTGACCTGTTTTGAGTCCGGCTCCCACCT
TGCTGTCACATATCAGAATGTCACTGCTCTGAGTGTGTCCAGGGCCTTGGAGGTGGGCCGTGAGGTGCCGAGAA
GCAGCCGCAGCCTCCTCCCTCCACCTATCCCAGAGCGATGCTGGTGATTTCAAACGTATCTGTCTATCAGTAA
TAAACAAGATGCAGATCTCTGGT

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FIGURE 172

MSVRTLP LLFLNLGGEMLYILDQRLRAQNIPGDKARKVLNDIISTMFNRKFMEELFKPQELYSKKALRTVYERLA
HASIMKLNQASMDKLYDLMTMAFKYQVLLCPRPKDVLLVTFNHLDTIKGFIRDSPTILQQVDETLRQLTEIYGGL
SAGEFQLIRQTLLIFFQDLHIRVSMFLKDKVQNNNGRFVLEPVSGPVPWGTEVPGLIRMFNNKGEEVKRIEFKHGG
NYVPAPKEGSFELYGDRVLKLGTMYSVNQPVETHVSGSSKNLASWTQESIAPNPLAKEELNFLARLMGMEIKK
PSGPEPGFRLNLFTTDEEEEAALTRPEELSYEVINIQATQSLFSNLATIQQGLTG

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FIGURE 173

GAAGCTGGACTGCAGCTGGTTTCAGGAACTTCTCTGACGAGAAGAGAGACCAAGGAGGCCAAGCAGGGGCTGGG
CCAGAGGTGCCAATATGGGGAACTGAGGCTCGGCTCGGAAAGGTGAAGTAACTTGTCCAAGATCACAAAGCTGG
TGAACATCAAGTTGGTGCTATGGCAAGGCTGGGAACTGCAGCCTGACTTGGGCTGCCCTGATCATCTGCTGCT
CCCCGGAAGTCTGGAGGAGTGCGGGCACATCAGTGTCTCAGCCCCCATCGTCCACCTGGGGGATCCCATCACAGC
CTCCTGCATCATCAAGCAGAACTGCAGCCATCTGGACCCGGAGCCACAGATTCTGTGGAGACTGGGAGCAGAGCT
TCAGCCCGGGGCGAGGCAGCAGCGTCTGTCTGATGGGACCCAGGAATCTATCATCACCTGCCCCACCTCAACCA
CACTCAGGCCCTTCTCTCTGCTGCCTGAACTGGGGCAACAGCCTGCAGATCCTGGACCAGGTTGAGCTGCGCGC
AGGCTACCTCCAGCCATACCCCAACCTCTCTGCCTCATGAACCTCACAACCAGCAGCCTCATCTGCCAGTG
GGAGCCAGGACCTGAGACCCACCTACCCACCAGCTTCACTCTGAAGAGTTTCAAGAGCCGGGGCAACTGTCAGAC
CCAAGGGGACTCCATCCTGGACTGCGTGCCCAAGGACGGGCAGAGCCACTGCTGCATCCACGCAAACACCTGCT
GTTGTACCAGAAATATGGGCATCTGGGTGCAGGCAGAGAATGCGCTGGGGACCAGCATGTCCCCACAACGTGTCT
TGATCCCATGGATGTTGTGAACTGGAGCCCCCATGCTGCGGACCATGGACCCAGCCCTGAAGCGGCCCTCC
CCAGGCAGGCTGCCTACAGCTGTGCTGGGAGCCATGGCAGCCAGGCCCTGCACATAAATCAGAAGTGTGAGCTGCG
CCACAAGCCGCAGCGTGGAGAAGCCAGCTGGGCACTGGTGGGCCCCCTCCCTTGGAGGCCCTTCAGTATGAGCT
CTGCGGGCTCCTCCCAGCCACGGCTACACCCTGCAGATACGCTGCATCCGCTGGCCCTGCTGGCCACTGGAG
CGACTGGAGCCCCAGCCTGGAGCTGAGAATACCGAACGGGCCCCCACTGTCAGACTGGACACATGGTGGCGGCA
GAGGCAGCTGGACCCAGGACAGTGCAGCTGTTCTGGAAGCCAGTGGCCCTGGAGGAAGACAGCGGACGGATCCA
AGGTTATGTGGTTTCTTGGAGACCTCAGGCCAGGCTGGGGCCATCCTGCCCTCTGCAACACCACAGAGCTCAG
CTGCACCTTCCACCTGCCTTCAGAAGCCAGGAGGTGGCCCTTGTGGCCTATAACTCAGCCGGGACCTCTCGCC
CACCCCGGTGGTCTTCTCAGAAAGCAGAGGCCAGCTCTGACCAGACTCCATGCCATGGCCCGAGACCCTCACAG
CCTCTGGGTAGGCTGGGAGCCCCCAATCCATGGCCTCAGGGCTATGTGATTGAGTGGGGCTGGGCCCCCCCAG
CGCGAGCAATAGCAACAAGACCTGGAGGATGGAACAGAATGGGAGAGCCACGGGGTTTCTGCTGAAGGAGAACAT
CAGGCCCTTTCAGCTCTATGAGATCATCGTGACTCCCTTGTACCAGGACCATGGGACCCTCCAGCATGTCTA
TGCTACTCTCAAGAAATGGCTCCCTCCCATGCCCCAGAGCTGCATCTAAAGCACATTGGCAAGACCTGGGCACA
GCTGGAGTGGGTGCCTGAGCCCCCTGAGCTGGGGAAGAGCCCCCTTACCCACTACACCATCTTCTGGACCAACGC
TCAGAACCAGTCTTCTCCGCCATCCTGAATGCCTCCTCCCGTGGCTTTGTCTCCATGGCCTGGAGCCCGCCAG
TCTGTATCACATCCACCTCATGGCTGCCAGCCAGGCTGGGGCCACCAACAGTACAGTCCCTACCCCTGATGACCTT
GACCCAGAGGGGTGCGAGCTACACATCATCTGGGCTGTTTGGGCTCCTGCTGTTGCTCACCTGCCTCTGTGG
AACTGCCTGGCTCTGTTGCAGCCCCAACAGGAAGAATCCCTCTGGCCAAGTGTCCAGACCCAGCTCACAGCAG
CCTGGGCTCCTGGGTGCCACAATCATGGAGGAGGATGCCTTCCAGCTGCCCCGCCCTTGGCACGCCACCCATCAC
CAAGCTCACAGTGTGGAGGAGGATGAAAAGAAGCCGCTGCCCTGGGAGTCCCATACAGCTCAGAGACCTGTGG
CCTCCCCACTCTGGTCCAGACCTATGTGCTCCAGGGGACCCAAGAGCAGTTTCCACCCAGCCCCAATCCAGTC
TGGCACCAGCGATCAGGTCTTTATGGGCAGCTGCTGGGCAGCCCCACAAGCCCAGGGCCAGGGCACTATCTCCG
CTGTGACTCCACTCAGCCCCCTCTTGGCGGGCTCACCCTCAGCCCCAAGTCCCTATGAGAACCTCTGGTTCCAGGC
CAGCCCCCTTGGGGACCCTGGTAACCCAGCCCCAAGCCAGGAGGACGACTGTGTCTTTGGGCCACTGCTCAACTT
CCCCCTCCTGCAGGGGATCCGGGTCCATGGGATGGAGGCGCTGGGGAGCTTCTAGGGCTTCTGGGGTTCCCTTC
TTGGGCTGCTCTTAAAGGCTGAGCTAGCTGGAGAAGAGGGGAGGTCCATAAGCCCATGACTAAAAACTACC
CCAGCCAGGCTCTCACCATCTCCAGTCACCAGCATCTCCTCTCCTCCCAATCTCCATAGGCTGGGCTCCAG
GCGATCTGCATACTTTAAGGACCAGATCATGCTCCATCCAGCCCCACCAATGGCCTTTTGTGCTTGTTCCTAT
AACTCAGTATTGTAAAC

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FIGURE 174

MARLGNCSLTWAALIILLPGSLEECGHISVSAPIVHLGDPITASCIKQNCSHLDPEPQILWRLGAELQPGGRQ
QRLSDGTQESIITLPHLNHTQAFLLSCCLNWGNSLQILDQVELRAGYPPAIPHNLSCLMNLTSSSLICQWEPGPET
HLPTSFTLKSFKSRGNCQTQGDSILDCVPKDQSHCCIPRKHLLLYQNMGIWVQAENALGTSMSPQLCLDPMDEV
KLEPPMLRTMDPSPEAAPPQAGCLQLCWEPWQPGHLINQKCELRHKPQGEASWALVGPLPLEALQYELCGLLPA
TAYTLQIRCIRWPLPGHWSWSPSLELRTTERAPTVRDLTWWRQRLDPRIVQLFWKVPVPLEEDSGRIQGYVVS
RPSGQAGAILPLCNTTELSTFHLPSAQEVALVAYNSAGTSRPTPVVFSESRGPALTRLHAMARDPHSLWVGWE
PPNPWPQGYVIEWGLGPPSASNSNKTWRMEQNGRATGFLLENIRPFQLYEIIIVTPLYQDTMGPSQHVYAYSQEM
APSHAPELHLKHIGKTWAQLEWVPEPPELGKSPLTHYITIFWTNAQNQSFSAILNASSRGFVLHGLEPASLYHIHL
MAASQAGATNSTVLTLMTLTPEGSELHIILGLFGLLLLLTCLCGTAWLCCSPNRKNPLWPSVPDPAHSSLGSWVP
TIMEEDAFQLPGLGTPPITKLTVLEDEKKVPWESHNSSETCGLPTLVQTYVLQGDPRVSTQPSQSGTSDQV
LYGQLLGSPTSPGPGHYLRCDSTQPLLAGLTPSPKSYENLWFQASPLGTLVTPAPSQEDDCVFGPLLNFLLQGI
RVHGMEALGSF

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FIGURE 175

GGGTCGCGCGGAGATTGCTGGGCGGTTCTTGCCGGAAGCGGAGAGCGGCTGATCGCAGTCCGGAGGTGAGGCGGA
ACTCTGAGGCAGATATCCTCCCTTTCTCTCGGCTGCTGCTTACTTTGACAAGCCAGGCTAACATTGAAGGT
GGTCCATTATGGCTGACATGCAAAATCTGGTAGAAAGATTGGAGAGGGCAGTGGGCCCGCTGGAGGCAGTATCTC
ATACCTCTGACATGCACCGTGGGTATGCAGACAGTCCTTCAAAGCAGGAGCAGCTCCATATGTGCAGGCATTG
ACTCGCTGCTTGTGGTCTGTGGCAGAGTACTTGAAGATCAGTAAAGAGATTGGGGGAGACGTGCAGAAACATG
CGGAGATGGTCCACACAGGTTTGAAGTTGGAGCGAGCTCTGTTGGTTACAGCTTCTCAGTGTCAACAGCCAGCAG
AAAATAAGCTTTCCGATTTGTTGGCACCCATCTCAGAGCAGATCAAAGAAGTGATAACCTTTCTGGGAGAAGAACC
GAGGCAGCAAGTTGTTTAAATCACCTGTCTCAGCTGTGACGCAAGATCCAGGCCCTGGGCTGGGTGGCTATGGCTC
CCAAGCCTGGCCCTTATGTGAAAGAAATGAATGATGCCGCCATGTTTTATACAAACCGAGTCTCAAAGAGTACA
AAGATGTGGATAAGAAGCATGTAGACTGGGTCAAAGCTTATTTAAGTATAATGGACAGAGCTGCAGGCTTACATTA
AGGAGTTCCATACCACCGGACTGGCCTGGAGCAAACGGGGCCTGTGGCAAAGAAGTGCAGCGGACTGCCATCTG
GACCCTCTGCCGGATCATGTCTCTCTCCCTCCACCATGCCCCCTCTCTCCCCAGTCTCTACCATTTTCATGCT
CATATGAGTCTGCTTCCCGCTCATCACTGTTGCGCGAGATTAAATCAGGGGGAGAGCATTACACATGCCCTGAAAC
ATGTATCTGATGACATGAAGACTCACAAGAACCCTGCCCTGAAGGCTCAGAGTGGTCCAGTACGCAGTGGCCCCA
AACCATTCTCTGCACCTAAACCCCAAACAGCCCATCCCCCAAACGAGCCACAAAGAAGGAGCCAGCTGTACTTG
AACTGGAGGGCAAGAAGTGGAGAGTGGAAAATCAGGAAAATGTTTCAAACCTGGTGATTGAGGACACAGAGCTGA
AACAGGTGGCTTACATATACAAGTGTGTCAACACGACATTGCAAAATCAAGGGCAAAATTAACCTCATTACAGTAG
ATAACTGTAAGAAACTTGGCCTGGTATTTCGATGACGTGGTGGGCATTGTGGAGATAATCAACAGTAAGGATGTCA
AAGTTTCAGGTAATGGGTAAAGTGCCAACCATATCCATCAACAAAACAGATGGCTGCCATGCTTACCTGAGCAAGA
ATTCCTGGATTGTGAAATAGTCAGTGCCAAATCTTCCGAGATGAATGTCTCTATTCTACAGAAGCGGGTGA
TTAATGAATTCAGTTCCTGAGCAGTTCAGACCCATGGAACGGGCAGAAAGTTGGTCAACACAGTGACAGAAA
TTGCTGGATAAGCGAAGTGCCACTGGGTTCCTTGCCCTCCCTTCACACCATGGGATAAATCTGTATCAAGACGGT
TCTTTTCTAGATTTCTCTACCTTTTGTCTTTAAACTGCTTCTCTGCTCTGAGAAGCACAGCTACCTGCCTTC
ACTGAAATATACCTCAGGCTGAAATTTGGGGTGGGATAGCAGGTCAGTTGATCTTCTGCAGGAAGGTGCAGCTTT
TCCATATCAGCTCAACCACGCCCGCCAGTCCATTCTTAAGGAAGTCCGACTAGGACTGATGATGCATTTTAGCTT
TGAGCTTTTGGGGGTATTCTACCAACAAACAGTCCATTGGAAAGAAAACAGTCCCTGGAATTAACAGATCAGAA
TGTTACACTGGTTAATCTTTTTTTAACAATGAGCATGAAGGTAGCAGAAGCTGGTGTGTTTCCAGATGGTTCTT
CTAACCAAACTAATTTTTCTACTGTTGACAAGCGAGGCAAGGGTGCAGTGGACCAAGGCTGAGGCTTGGCCATC
TAGCATTCATACAAAATTGTTTCCATATAAGCATTCCTTTTATTCTCTATTCTATCCTGGGTCTGCCTCAACCGT
GAGATAGGAGAGTCTCTGGTACTAGCTGCTGTAGCAGTGCCCTTCATCCAGGCAGTTAATGGAGTCTTGGACCC
TTTCTTTCTCTGGGATCCCTGCCCAGCACCTTCCTATAGAGATGACTTTAAAAGGAAAAAAAAAAAAAAAAAAC
CCACATGATTTCAAGGAGTCTGGCATTCTGTAATCCTTCTTCCCTGCCAGGTGCCTGTACCTGTCTTCACTGCC
TCCTTTTCCCTGTATGCTCATCAGCTTATGGCTTCTGTCTAAGCACCTGAACAGAGGACTGAAACCTCCACTGC
AGGCTGGTTTTAGGTCTTGAATTATGTAAGAATCTTGCACAGCACTGCTAATGTAAATTTTCAAGTTGTTTTCCCT
CTAGGACAAACACTTACCAAAATATGCAACTTTTTTTTGGTGGGAAGAGATTGTCCTGTGATTTCTACCCATT
TCCTGAGGCCTGTGAAATAAACCTTTATGTACTTAAAGTTATACAGAAAATAGAATAAAGTTAATACCAAACTT
G

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FIGURE 176

CCGGAGTCTCGCGCCCGCGGTCAATGTGACACAGCGAAGATCGCGTCGCCCCGGCTGCCTGTGGCTCTTGGCTGTGG
CTCTCCTGCCATGGACCTGCGCTTCTCGGGCGCTGCAGCATCTGGACCCGCCGGCGCCGCTGCCGTTGGTGATCT
GGCATGGGATGGGAGACAGCTGTTGCAATCCCTTAAGCATGGGTGCTATTAATAAATGGTGGAGAAGAAATAC
CTGGAATTTACGTCTTATCTTTAGAGATTGGGAAGACCCTGATGGAGGACGTGGAGAACAGCTTCTTCTTGAATG
TCAATTTCCCAAGTAACAACAGTGTGTCAGGCACCTGCTAAGGATCCTAAATTGCAGCAAGGCTACAATGCTATGG
GATTCTCCCAGGAGGCCAATTTCTGAGGGCAGTGGCTCAGAGATGCCCTTACCTCCCATGATCAATCTGATCT
CGGTTGGGGGACAACATCAAGGTGTTTTTGGACTCCCTCGATGCCCAGGAGAGAGCTCTCACATCTGTGACTTCA
TCCGAAAAACACTGAATGCTGGGGCGTACTCCAAAGTTGTTTCAGGAACGCCTCGTGCAAGCCGAATACTGGCATG
ACCCCATAAAGGAGGATGTGTATCGCAACCACAGCATCTTCTTGGCAGATATAAATCAGGAGCGGGGTATCAATG
AGTCCTACAAGAAAAACCTGATGGCCCTGAAGAAGTTTGTGATGGTGAAATTCCTCAATGATTCCATTGTGGACC
CTGTAGATTTCGGAGTGGTTTTGGATTTTACAGAAGTGGCAAGCCAAGGAAACCATTCCTTACAGGAGACCTCCC
TGACACACAGGACCGCCTGGGGCTAAAGGAAATGGACAATGCAGGACAGCTAGTGTCTTGGCTACAGAAGGGG
ACCATCTTCAGTTGTCTGAAGAATGGTTTTATGCCACATCATACCATTCTTGGATGAAACCCGTATAGTTTAC
AATAGAGCTCAGGAGGCCCTAATCTTCCAAACCACATGGGAGACAGTTTCTTTCATGCCCAAGCCTGAGCTCA
GATCCAGCTTGCAACTAATCCTTCTATCATCTAACATGCCCTACTTGGAAAGATCTAAGATCTGAATCTTATCCT
TTGCCATCTTCTGTTACCATATGGTGTGAATGCAAGTTTAATTACCATGGAGATTGTTTTACAACTTTTGATG
TGGTCAAGTTTCAAGTTTGTAGAAAAGGGAGTCTGTTCCAGATCAGTGCCAGAACTGTGCCCAGGCCCAAAGGAGACA
ACTAACTAAAGTAGTGAGATAGATTCTAAGGGCAAACATTTTTCCAAGTCTTGCCATATTTCAAGCAAAGAGGTG
CCCAGGCCTGAGGTACTCACATAAATGCTTTGTTTTGCTGGTGATTTAACCAAGTGTGGAAAAATCTTGCTTGG
CTATTTCTGCATCATTTCTTAAGGCTGCCTTCCCTCTCTCAGTACGTTGCCCTCTGTGCTATCATCTTATCATCAA
TTATTAGACAAATCCCACTGGCCTACAGTCTTGCTTCTGCAGCACCCACTTTGTCTCCTCAGGTAGTGATGAATT
AGTTGCTGTACAAAAGGAGGGAAGTAGCACCCAAATTAAGTTGCTTAAGAGAGGAAATGTACATCTTGTATAAC
TTAGGGAGCGAAGAAAAATGTAGGCGCGAAAGTGAAAAGTGAGGCAGCTAGTTCTTCTTCTTCCATTCTCGACCAA
CCTGCCCTTTCTTAATATGACTAGTGGTCTTGATGCTAGAGTCAACTTACTCTGTGCTGGCTTTAGCAGAGAAT
AGGAGGAACCATATGAAAAAGATCAGGCTTCTGACTTCCATCCCCAAAACACATTTACCAGCATACTCCAACT
GTTTCTGATGTGTTCCATGAGAAAAGGATTGTTTGCTCAAAAAGCTTGGAATACTACACACTCCCTTTCTCCT
TCTGGAGATCAACCCACATTAGAGTGTCTAAGGACTCCTGAGAATTCTGTGTTACAGTAAACAAAATAACGTAAT
CTACCATTTCTTACACTATTTGAGCATGGAAATCATAGTCCCCACTCTGTGAAAACCTTAACGCTTTTGGAAAGAC
ATTTCTGTAGCATGTCAGTTTGGAGAAATGATGAGCTACGCCTTGATGAAAGAACCGTGTTGGTGCTGCTAAGTT
TAGCCATTATGGTTTTCTCTCTCTCTTAAGCCTTATCTTCAACTAAAAGATGAGGATTAAGAGCAAGAAG
TTGGGGGGGATGTGAAAAATAATTTTATGAGGTTGTCTAAAAAT

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FIGURE 177

MASPGCLWLLAVALLPWTCASRALQHLDPPAPLPLVIWHGMGDSCCNPLSMGAIKKMVEKKIPGIYVLSLEIGKT
LMEDVENSFFLNVSQVTTVCQALAKDPKLQQGYNAMGFSQGGQFLRAVAQRCPSPPMINLISVGGQHQQGVFGLP
RCPGESSHICDFIRKTLNAGAYSKVVQERLVQAEYWHDPKEDVYRNHSIFLADINQERGINESYKKNLMALKKF
VMVKFLNDSIVDPVDSEWFGFYRSGQAKETIPLQETSLYTQDRLGLKEMDNAGQLVFLATEGDHLQLSEEWFYAH
IIPFLG

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FIGURE 178

CCTTACGGCCAGAAACGCCACCTTCCAGTAATTCGCCAAATGACAAACACAAAGGGAAAGAGGAGAGGCACCCG
ATACATGTTCTCTAGGCCTTTTAGAAAACATGGAGTTGTTCCTTTGGCCATGTATATGCGAATCTATAAGAAAGG
TGATATTGTAGACATCAAGGGAATGGGTACTGTTCAAAAAGGAATGTCCACAAGTGTTACCATGGCAAACTGG
AAGAGTCTACAATGTTCCCCAGCATGCTGTTGGCATTGTTGTAAACAAACAAGTTAAGGGCAAGATTCTTGCCAA
GAGAATTAATGTGTGTATTGAGCACATTAAAGCACTCTAAAAGCCGAGATAGCTTCCTGAAACGTGTGAAGGAAAA
TGATCCTCCACCCAGAGAAGCACAGTGTGTGAGAACCAATGGGAAGGAGCCTGAGCTGCTGGAACTATTCCCTA
TGAATTCATGGCATAATAGGTGTT

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FIGURE 179

MTNTKGKRRGTRYMF SRPFRKHGVVPLAMYMRIYKKGDIVDIKGMTVQKGMSHKCYHGKTGRVYNVPQHAVGIV
VNKQVKGKILAKRINVCIEHIKHSKSRDSFLKRVKENDPPPRAQCVRINGKEPELLETIPYEFMA

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FIGURE 180A

CGGACGCGTGGGCTGCTGCGGAGCCGGCAGCGCAGGCGGGCGGAGCGGAGCTGCCCCGTGGTGGCGGGCGATGC
CCCCGTGAGCCTCCCTCGCCGCCCTCCCGCCCCGCGTGCCTATCCACTCGGAGTCCGCGCCAGCCTGGGGCCG
GGCCGCGCCTACTGCGGGGTTCGCGGGGCGGGTCCCGGGGCGAGCAGCTGCCCGCCTTGCGGAGCCGCTCGGC
CTGTGGAGGCCCCCTCCCTGTCTGGACCCCGGCCACCTCCGGACCCCTTTATCACATCGCCTCCTCTGGGAGC
CTGCCCTGATTGCCTTCACCTCATTCTTTGAAAATTGGTGTCTTTGGCAGAAGTCAATTGAAGCCTTGTGCAAATG
CCCTAGGGGTGTGCTGTTGGGAGGCAGCCCCCTGTGATGCGGAACACCAGGCTCAGATTTCATCAGTTCGAGCTGC
CTGAGGCCCTGCCACCCCGGGGACCATGTTTAACGGGGAGCCAGGTCTGCCTCATCTGGGGCCTCCAGGAATGT
GGTGGGAGCTCCAGCATTGGCGGTGAAATCTGCGGATCCCAGCAAGCCGGGGGCGGGGCTGGGACCACCACCGC
CAAGAAGCGGCGGAGCAGCCTGGGTGCCAAGATGGTGGCCATCGTGGGCTGACTCAGTGGAGCAAGAGCACACT
CCAGCTTCCGAGCCTGAAGGGGCCACCAAGAAGCTGCGCAGCAACATCCGCCGGAGCACGGAGACAGGCATCGC
GGTGGAGATGCGGAGCCGGGTACACGCCAGGGCAGCCGGGAGTCCACCGATGGGAGCACCAACAGCAACAGCTC
CGACGGCACGTTTCATCTTCCCCACTACCCGGCTAGGGGCTGAAAGCCAGTTTCAGCGATTTCCTGGATGGGCTGGG
ACCAGCTCAGATTGTGGGGCGACAGACACTGGCAACACCACCCATGGGAGATGTGCACATTGCCATCATGGACCG
GAGTGGCCAGCTGGAGGTGGAAGTGATTGAAGCTCGGGGCTGACCCCAACCAGGCTCCAAATCCCTCCCAGC
CACCTATATCAAGGTTTACCTGCTGGAGAATGGGGCTGCTTGGCCAAGAAGAAGACAAAGATGACCAAGAAGAC
CTGTGATCCCTGTACCAGCAGCTCTGCTCTTTGACGAGGGACCCAGGGCAAGGTGCTGCAGGTGATCGTCTG
GGGAGACTATGGCCGCATGGACCACAAGTGCTTCATGGGCATGGCCAGATCATGCTGGACGAGCTGGACCTCAG
CGCCGCGGTACCCGGCTGGTACAACTCTTCCCCACCTCCTCAGTGGCAGACTCCACACTCGGATCCCTCACCAG
GCGCCTGTCCCAGTCTTCCCTGGAGAGTGCCACCAGCCCCCTCATGCTCTTAAGGATGTCAGGAAGAGGCCAGGAT
GGTGGTGTGGGGAGGGGTGCCTGCTGGCCCCATGTCTCCCTGTACATAGTCTTCGTGTCTTTCTGGACCCCTT
GTCCTGCTGCATGCCCTGTTGGCTACTGGGCTCATCCAGCTGGCAGTGGAGACTGTAGTGTGTGCGTGTGTGCGT
GCGTGTGTGTGTGTGTGTACGTGACCAGTTCTATCTGTTTCATTTGTCTGGGTATAGTCACTCCTGGTGATGATA
TGGGCTGAAATGTCTCCACGTCTCTTTGTGTCTTGTGAAAAGAAACCCAAAGGAGTGTGTGTGGACATGACTC
ACCCTGAGGAGTCTCCAGGGATGGAGGTGGGGCATGCGGCCACTGGTCCGTGCTGCCCTGGCTCCTGGCTGGGGCA
GAGCCTGTGTGTTCTTCACCTGTGCCTGCTCCTGGTGGTCTCTGCTTTGTTTTCTGTCTTGTCTTTTGTTCCT
CTTGACTCTCCCGGCTCTGCCACTGTTTTCTGAGAAATGTAGCATCCGCTGCAGCTGGCCACACTGAGGGCCCTC
TGGGAACCCCACTGGAGCCGCTCCGGCAGCTCTTCTGCCACTGAATGCGTTCTGCAGCATGTAGCATGC
CCACCTAGCTCCCTGGCCAGGGCCCTGGGGAGGCAGAGGGTACCCAGGGGACTGAGGGCTTAGAAATGACTTTCT
CTATGAGGCTGGAACCTCCTCCTTCTTCCAGTGAAGCACGAGGTCTTGGTTCCAGGGTTCCTGGCCAGGTGCCCC
CTTAGCATTGTCTTCTATCTCCTGTCTCTTCAAGCCTCCCCACTCCACCGTGCCGAAGGAGCTCTGCCAGTGGG
CCTGGGCAGGCAGCCACAGAGGGCATGTTATCTGCTAAAGCAAACAGTCTCCTGAGGCCCTGAGGGTGGCCCTG
ACCCCTCAGGGCTCATTCTGGTGGGCATGACTCGGTAAGGAGTTCTGTGGGTAGGGCTGTTTGTGGAATAA
GGAGGGCTGAGGCTGAGTTGTTCCCGCCACTGTTGAGGATCCCATCTGACATTTGGGGATTCACTGCATGAAGT
TGTTCAATTTGGGGCTCCAGTTTTTGTGCAATTCAGACCAGGGTCCCTGTCTGGGAGCTCAGACTTAGCTGGGCT
CCAGCAGCCTGGCTCCGGACTCTCGTCTGCCACCATCACCAGCTCTGTCTAAGCAATACTTACCCCTCCGGGCTT
CCCTGCTTTCTGTGCCCCACTGCTGCCCTCTGCAGAGCCATCTGCTCCAGGCACCCACCTGCCTCTGCTTGCTT
TCTACCCATGTCTGGTTGGAGCTTCTCACAGCCACTCAAACCCCTGACTTGATTGACAACCTGGGCCCTGTTGGT
GGAGACCAGTGCCTGAACTGGACCCTGTGAAATCTGTCCCGTGGGAATCCTGAAGTCTGACTCAGGAATGCCAG
ACCTGTCCCTGTCCCTCCTCAGCTCTAGGGTGAAAGGCGAGAGGTGACAGGACATGGACAGAGCAGCCCTGG
GTTTGTATCTGGTAGGGGAGAAAGCAGCAGGACAGTGGAGGTGTGIGGAAGGCACTCTTCCACCTCTCTCCAGG
CATTATCCCCAGGTGCTGAAATGGCTGTGGCCCCAGCACCTGAGGCAGGGGTACGCTACCTGGGGTAGCAGTAGA
AAGGTCTGGGGTCTGAATGACTTGGGGCTCCATTATATAACCAAGTTGTAGGGGCATGGAGGCAGTGGCGCCT
TATGGATAGGTCTATCTAGCCCAAAGGGCTCCTTGGCTGGCATGGTTCTGTGTTACGTTGAAGCCAGAGTCTTA
TAACACCTCCCAAGAAAGATAGGGGAAGAAGCCAGAACCCACCTGGCCTGCCACAGGACAAGAAGTGGGTAAG
GGCAGGAAGGAAATGAACGGAGTTAGCTCCAGGCTCCTATCTGCTGAGCCTCTATTCTTATATTATCAGAG
AAAGGGACCATTTGGGTGCATAGAGATGGGGAGGAGGCACTGGGCTGAATTTCTCTTTAGGCGGAAATGCTCTC
CCCAGGCCCATTTGCGTTCGTCAGTTCTTGGAAATGGACAAAGGGCTCTGCTCCTCCTCGACCTTAGTGGGGGATC
AAGAAGGAACTCCGTTGCAAAAGGGTATTTAATCTCCTGTTTATGATATATTACCTCTAGAGCAGTCACTGT

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FIGURE 180B

CAGGGTGTTCGAAAAATACICTACACCTTTGGGATGATAGGGTTGTTAGTGACCCACAGGACAGTATAGATGTTT
GTGGATGTAGCACTGAGTGGTGATACCCAGACCAGCAGTCACCCAGGAAGTGGGGGCTACCCATACCCTCATTC
CTCTGGTGGGGAGCTGCCTGCAGAGAGGCCTGCCACTGGGGGTTCAGGCCGTGGTGACCCCTGCCTCTGGGGAA
GGGTTAGCACAGGGGAGGTTCTAGCTGGAGGAGGGGTCTGATGTGCTGGTAACCTGGGCTGACCTACCTACAGTC
CCTGGCTGCCAAAACCTGCTCAGCAGTTGGGCCACTCCACTATTCCACCTCTCTAAAAGAAGGTAATTTCTCTCCC
AAATTGACCTTGGGGAATTATTCTTTAAACCTTTGCACCAAATAAGTTACTCATCCCCACCTGGATTTTACCCC
ATGAGGGTAAAGTTGTGTGAGGCTGACACGCTGTGTGATGCAGTGTGGCTGCACTTAAGGGTCTGTTTCTCAGC
ATCATGGATGCAGGGGCTTGCTGAAAAGCCACTCTGGACCTAGCCTGTCCCAGAAGAGGAGAATGCACAAGTGT
AACTCCIGGTTGTTTGCTGGGGTGGGGGAGCATCTGCTGTTTGGAGACGGGGGGTGGGGAAGGAAGGAACATGAT
CCCTCCAGAAGTCTCCACCCCTGGGGCCAACCTCACTGCCATGTTCACTGTCCCAGGCTCCAAATGCCCCCTTGCCC
AGATGAAACCCTGCAGTGGTTACAGGAATGGAGCTCTTTGTCACTCCACCTCCTCTGGTCAGGCGAGGTTCACTG
TGCATATGGCAGAGACAGGAGTGGCCCTGCAGTGATGTTGGGTTGTGGGCAGGGACAGTGATGGATGACTCAGAG
CGCTGTCTTTGTATTTCTGCTCTGTTCACTCTGTCCCCTTTCTTCATAGACTCCCTTTCCCTGCAATGGGTTT
TTGGTATGAAAAAGGCTCCAGTAAATGGAGCCAAGTCTTGGTTTGACAAGGGGAACCTTGATCCTTCAGGGAAGAA
TCATCTCCAAAATGACTCCCCATCTGGTTTCTTCTACCACCCAATTCTACTAGGAAAGGAGCACTTAGGAGGCTC
TTGGGATGCAGCAAGTCCCAGGCAATGCCAGCATTTCATGGGGGTGAGGCAGAACCCAGGAGCTCCAAGAAAGG
CCACCCATAGAGCTCATCTCTGTGGAATCACTGCCGGTTAGAACACTGAGGTCAAGCCAGTCTCCCATGGTCA
TGCCACCCACCAGGGAAGCATGCCTGATCTCTTCTTACTGCCAGCCTTGAGGAGAGCAGAAGCCTCCATTTTTA
AAGACAATAAAGACCTCCAAGGTAATCTTTGGAAATGAAATGTAGCACAATCTTAGCCTACGTTACCAGGAGC
CCTGACATGCAACCAGGTTCCCTCTTCCATGCCCTGCTGCCAGGAGTTGCTGAGCTCCTCTTCCCTGGGGTTC
CAGCCCTCCTAATACCTCATATTTCCCATCTTCTCAGCCCAGAAAGCAATGGGGCTTTAGTGATGCTCCTCTTT
TGTGTCTCTCTGTTGCTCTAGCACTGTGCAAACTCTGCAAGAAATGCTGCCTTTGCTTGATGTTGTAGATGA
GTTGCCCTCCACCTGGCTGGAGAGATGGCACATCATTACAGGCCAGAAGGTTGTCCAGCAGTGTTTCTGCAGTGG
CTGCAGGAGATGGAAGAAGAGCCCTGCTTCCCTGCCTCCTCTACCTTTCTCTTCCACTCCTCAGAGTTTTT
TTCTCCAGTATCCTGACATGTAAAGAGATTCTTTAAATGCTGCTTCTTCTACTGGACTGTCTTTCACTGAGTAG
TCAGGGAGGAGATGAAAATGTGGACACATCCCCCGCCTTCTCCCTCAACCTTTTCACTCACGTGAGAGAGGTT
GGGGCAAAACAAAACAAGCATGATTGAAGAGCAGGGGAAGCCACACAATCAGGTGAGCCCTGATGGGGCTGGA
CTGGCCTGGTCTGGCTGGGAAAGGATTCTTTTAAAGCGTGCTGAGCATCTCAGAGCAATGTGAGTGATGCCAA
AGAGAGCAACTTGGCCTCCTTGGGCACCAACTCTGATGGCTGAGTTGCACAAACGTGGCTCAGATGTTGGCATGC
CCGATGGTGGGACCTTGTCTCTGATAAAGGGCTTAATCTTTCCATGTAGCAAGCAACTTTCCCTCCCTCCCT
CCCCCGAACCCTGAGCTTGGGCTTGTGTGGGCCAGCATGGCTGTGCCTGTGAGGGAAGCCACATCAGTGAGAG
AAAGTTGCATTCTCTCAGGGGCCCTAGATTGGCTTGGGGCAGGTGCTTGTGAAAAGCATGAGTGTCTGCTTTG
GGAAACCCCTCCAGGGCTCTGGTTGGAACCTTGCCAGTAAGGACAGGGCCTTGGGCTCCCAAGGAGTTACAAA
TGATGCCAGGAAGGTTCCCTGAGCCTGGGTCCAGTCAGCTTGGCTAACAGAATGGGGCTTGGGAATTCCAGGGG
CAACTGAGCATCCACCCATTAGCCAGTGATCTGGACAGGGACAGCTGGCTACAGGGAATCAAAGGCTGTTCTGT
ACAGTTTTTACCAGAACTGTGACCTTGGGTAAAGCTCCTCACTTTTCTGGGCCTCACTTCTCATCTGCAAAAT
CAGAGCATTAGCTGCTCTCCCATGATTCCCTCCAGTTTTTAATTAAGGTCTCTGATCTGGAGCACATGAGGGT
TGCGAGCCTGGTGCACCTGGTTTCTGTCTCCGTGGGCTGGTTTCTTTCAGCCCTGATGCCAGGCTGGGTGCAG
GCTCTCATCTGGTCCATGCCAGATGCTGCCCTCAGACAAGAACTCTGGGAATCCTAACAGACTCTGCTTTCTCT
CTTCGTGGTTTGTCTCTCTCTTTTATTCTTGTGTAATGATGAGACATAATTAAGGGTCATCTACAAAGGACAAT
TTTCAAGGTGCTGATGTGATGTGACAACCTCCGCTACATCTGAGTAAGTCAGTGTCCCCAACAGCAGATGAGGC
TGGGTCTTTTCTCATTTTCTGCTTCTGGGATGACATCAGTGGGAGAGTTGAAGATCTGAGAATTCTAAAGGAAATG
TTCTCTGATGGGAGGAGAGAGGGAACCTTATTTCCCTTCAAAGTAGTTTGCTTCTTAAGACCCTCTCCCTCCAG
AATGCTCTTTAACCAGACATCATTTTCAAGAGTGGGGCAGCTGCTTCTTAGGAAGAGTGGGCCTGATAGCTCAAC
CAACTCCTTTAGCATGTAACTCACAGAAGGCAAGAACCCCTTTTTTTAGACTTTCCAAATGCATCCTGCAAGA
GAGAGATAGCTGATAGGGACTGACAAGCACACTGTTTAGATAAGAAGCAATTACCCCTTTTATATCTGTGCTCTAT
ACATTTTCTATGTGCAGCATCTTTTCTAATTGTTGTGGTTCCCGGGTGGCAGGTGCACAGCTGGGAGGGACTGC
CGGCTGTTTCTGTACAACATTCTTGCCAATTCCCTTGAGGAGAAAATTCTTCACATGGCTTCTGCATGTACAGTAT

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FIGURE 180C

TTGGGCAGCAAAACATGATTAAAGTCAGTTTGAAAATGG

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FIGURE 181

MFNGEPGPASSGASRNVRSSSIGGEICGSQQAGGGAGTTTAKKRRSSLGAKMVAIVGLTQWSKSTLQLPQPEGA
TKKLRSNIRRSTETGIAVEMRSRVTRQGSRESTDGSTNSNSDGTFFPTTRLGAESQFSDFLDGLGPAQIVGRQ
TLATPPMGDVHIAIMDRSGQLEVEVIEARGLTPKPGSKSLPATYIKVYLLENGACLAKKTKMTKKTCDPLYQQA
LLFDEGPQGKVLQVIVWGDYGRMDHKCFMGMAQIMLDELDSLAAVTGWYKLFPTSSVADSTLGSLTRRLSQSSLE
SATSPSCS

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FIGURE 182

AAGCTGCTGACATCCTGGATCTAGGGTTGTAAAGAAGATTACATGAGCTAATGGATGTGAAAACATCTTAAAAAC
TCTCAAATACTTTTCAACTTTGGAGGATTATTATGATTTTCATTCTGTTTCAGCGGCTATACTCAGACTTTACTCT
AAAAGTCAAATCTTCTGACATTCTTTGAAGTGAAGCATTCTATGAATGTGAGCTGAAGAAATGAATGAAATGAAA
TAATGCAGCATCTAGTGCTTTTTGTCATGGCCCAAAGGGGCTCTGTGCTGCTCCACTACAGAGGAAACTTCAAGAA
ATGCTGGTTTGTACAGTGTTTTAGCTTGTGAGATTCTCTGGGACCTTCCCTGCTCCATCATGGGGTACCTCTA
GGTCATTTTACCTGGGACAAATACCTAAAAGAAACATGTTTCAGTCCCAGCGCCTGTCCATTGCTTCAAGCAGTCC
TACACACCTCCAAGCAACGAGTTCAAGATCAGTATGAAATTGGAAGCACAGGACCCAGGAACACCACATCCACC
TGTATTGCCACAGTAGTTGGACTGACAGGTGCCCCGCTTCGCCTGCGCCTTGATGGGAGCGACAACAAAATGAC
TTCTGGCGGCTGGTTGACTCAGCTGAAATCCAGCCTATTGGGAAGTGTGAAAAGAAATGGGGGTATGCTACAGCCA
CCTCTTGGATTTTCGGCTGAATGCGTCTTCTTGGCCCCATGTTCTTTTGAAGACGCTAAATGGAGCAGAGATGGCT
CCCATCAGGATTTTCCACAAGGAGCCACCATCGCCTTCCCACAACCTTCTTCAAAATGGGAATGAAGCTAGAAGCT
GTGGACAGGAAGAACCCTCATTTTCATTTGCCAGCCACTATTGGGGAGGTTCCGGGGCTCAGAGGTGCTTGTCACT
TTTGATGGGTGGCGAGGGGCTTTGACTACTGGTGCCGCTTCGACTCCCGAGACATCTTCCCTGTGGGCTGGTGT
TCCTTGACTGGAGACAACCTGCAGCCTCCTGGCACCAAAGTTGTGATTCCAAAGAAATCCCTATCCTGCCTCCGAT
GTGAATACTGAGAAGCCAGCATCCACAGCAGCACCAAACTGTCTTGAACATCAACCAGGGCAGAGGGGGCGT
AAACCAGGAAAGAAGCGGGGCGGACACCCAAGACCCTAATTTCCCATCCCATCTCTGCCCATCCAAGACAGCT
GAACCTTTGAAATTTCCCAAAGAAGAGAGGTCCCAAACCTGGCAGCAAGAGGAAACCTCGGACTTTGCTGAACCCA
CCACCTGCCTCACCAACAACCAGCACTCCTGAACCGGATACCAGCACTGTACCCAGGATGCTGCCACCATCCCC
AGCTCAGCCATGCAGGCCCCAACAGTTTGTATCTACTTGAACAAGAATGGCAGCACAGGCCCCCACTTAGATAAG
AAGAAGGTCCAGCAACTCCCTGACCATTTTGGACCAGCCCGTGCTCTGTGGTGTGTCAGCAGGCTGTCCAGGCC
TGTATCGACTGTGCTTATCACCAGAAAACCGTCTTCAGCTTCTCAAGCAAGGCCATGGTGGTGAGGTTATCTCA
GCCGTGTTTGACCGGGAACAGCATACCTTCAACCTCCCAGCAGTCAACAGCATCACCTACGTCCTCCGCTTCTCTG
GAGAACTCTGCCACAACCTTCGTAGTGACATCTGTTTGGCAACCAGCCCTTTACACAGACTCACTTGTCACTC
ACTGCCATAGAGTACAGCCACAGCCACGACAGGTACCTACCAGGTGAAACCTTTGCTCTGGGGAATAGTCTGGCC
CGCTCCTTGGAAACCACACTCAGACTCAATGGACTCTGCCTCAAATCCCACCAACCTTGTACAGACCTCCCAAAGG
CACC GGCCCTTGCTTTTCATCTGTGGCCTCCCAACAGCACTGCCTCAGCTGTGCGCAGGCTATGCTCCAGGGGA
GTGTTAAAGGATCAAATGAAAGAAGGGATATGGAATCATTTTGGAACTAAATCGTTCCCCAGGGTCCGACCGA
TACCTGGAGAGCCGCGATGCCTCTCGACTGAGTGGCCGGGACCCCTCCTCATGGACAGTCCGAGGATGTGATGCAG
TTTGTCCGGGAAGCTGATCCTCAGCTTGGACCCACGCTGACCTGTTTCGCAACACGAGATCGATGGCAAGGCC
CTGCTGCTGCTGCGCAGTGACATGATGATGAAGTACATGGGCCTGAAGCTGGGGCCTGCACTCAAGCTCTCCTAC
CACATTGACCGGCTGAAGCAGGGCAAGTTCTGAACCAGGAGAGGCAGCCTAGACAACCAAGTGGCAGCAGGTGGG
GGCATTCTTCTAGGAATGAGGGGCATCAGCCACCCAGGCACCTCAGTGGGGTTCCGGGGCACCTCAGGACTCC
AAGAGGCTGTGTGGAGCCACCACTCCTAGCCACAGCTGCCATGATAAGTCTTCCATGAAGGACTGAGGAGGGAG
AGTGGGGGTCCAGGGCTGGTGTCTCTTCCCTCAGCTCTGCCGGGGCTCTAAGGTCCCTCTATTTATTTCTCAA
CCCTGGCTGGCCTCTCACCAGGAGTTTAGGCTGAATGCCTTCCACGTGATGGAGGAAAAGGCCAACTCTGTCTG
GTCTTGCTGTGGCACCCCATCGCCCCACAGCTCGTACCTTCTCACCAGATTCCCCTGAATCCAAACTCGTGGTGC
AAACCTCTACCTTTTTTACAAAAGATCTTATTGTTAATTTATTGTTTCTGGCACTTGGGCAACCTGTAGTTA
ATACTCTCCACACTAGACACTGGGTTTCAGGAGGAGGAGACTGCCCTGCTTTGGTCCAGAGAGGCCCTCTG
CAGATAGGCGTGGCCCCCTCTTCAGAGGACACTACCTAGGGCACTTTCTCTTTGAGGTGGAGAGACCCATAAAGC
CTTGACCACATCACTCCATATGGGGAGGAGAAGGATCCCTGTACCTTCTCTCTTTCACGGGGCCCTTTTGCA
GCCCTAGGCTCATCTGTGGGAAGGGAGTCCCTGGCTTATACTGCCCCACACAGCTCCTTGCCCTGGCCAGAA
CTGCTGTCTGAAGAAAATCAGGCCGAAGGCCAAGAAGGCGCTAAGGGGGATGGGAGGGCAGGTTTTCCAGGCTGG
AGTCGGTTCCACCCACTCGCCTGTCCACAGGCTTCTTGTAAAGCAAGTCAGCAGCACAGCTACTCACGCTGCCAT
CTGGACTTATTTTATGTCAATCTGTTTATAAATAAAAACCAATATAGAT

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FIGURE 183

GCTGCAGATGGCGGAAATGGATCCGGTAGCCGAGTTCCCCAGCCTCCCGGTGCTGCGCGCTGGGCTGAGGTTAT
GGCTCGCTTCGCGGCCAGGCTGGGCGCGCAGGGCCGGCGGGTGGTGTGGTTACGTCAGGCGGCACCAAGGTCCC
ACTGGAAGCGCGGCCGGTGCGCTTCCTGGACAACCTCAGCAGCGGGCGGCGCGGTGCAACCTCGGCCGAGGCCTT
CCTAGCCGCCGGCTACGGGGTCTCTGCTTGTATCGCGCTCGCTCTGCCTTCCCCTATGCCACCGCTTCCCACC
CCAGACTTGGCTGTCCGCTCTGCGGCCTTCGGGCCAGCCCTTTCGGGCTTGCTGAGCCTGGAGGCCGAGGAGAA
TGCATTCCGGGTTTTGCTGAGGCTCTGAGGAGCTACCAGGAGGCTGCGGCTGCAGGCACCTTCTTGGCAGTAGA
GTTCACTTCCGGGTTTTGCTGAGGCTCTGAGGAGCTGCGGCCAGGCACTCAATCCGCTAGGCCCTTCTGC
GATGTTTTACCTGGCTGCGGCTGTGTGAGATTTCTATGTTTCTGTCTCTGAAATGCCTGAACACAAGATCCAGTC
ATCTGGGGGCCCACTGCAGATAACAATGAAGATGGTGCCAAACTGCTTCTCCTTTGGTTAAAGATTGGGCTCC
CAAAGCATTATAATTTCCCTTTAAGTTGGAGACTGACCCCGCCATTGTAATTAATCGAGCTCGGAAGGCTTTGGA
AATTTATCAGCATCAAGTGGTGGTGGCTAATATCCTTGAGTCACGACAGTCCTTTGTGTTTATTGTAACCAAAGA
CTCGGAAACCAAGTTATTGCTATCAAGGAAGAAATAGAAAAAGGCGTAGAGATAGAAGAGAAGATAGTGGATAAT
CTTCAGTCTCGACACACAGCTTTTATAGGTGACAGAACTGAAGTAAAAAGCCCTTATAGGATTAAAAATTGTTT
AGGGCTCTTAGAGATGGTGAAACTACAAAAAAACCATGGCTTTTATATGGACAGAGAAAATGAAAGAAAGGGA
AAAGGCAGTGGTGTGTAGGCAAATATGGTTTGGCATTCTGCTTTTAAATGACACCTGATATGATGTCATTTTGATT
TTGAAATTGAACACTAGAACTGTTAATCACCTTTAAAAAGAAGAGCTTATTGGGAATTATATATTCCTTAAATA
TACATGGGGGCCCTGAATGTAGCCATCTTTATACTATAGAAAAAGGATTATGGATGCATGAATGGTCATGCTTTG
GAGATCAAATATTTGTTGAATGCCTATGTATGTCAGGCCCTGTGCTGAGCCATGAGGATTAAAAAGATGAATAAA
CATATCTTGTTTAGGAAATGGATGTATAAAAAAATCAAGTGCAATAAAGTGTGTGTCCAAAAGCTGACACAATGG
AAAGG

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FIGURE 184

MAEMDPVAEFPQPPGAARWAEVMARFAARLGAQGRRVVLVTSGGTVPLEARPVRFLDNFSSGRRGATSAEAFLA
AGYGVLFYLRARSAPFYAHRFPQTWLSALRPSGPALSGLLSLEAEENALPGFAEALRSYQAAAAAGTFLAVEFT
TLADYLHLLQAAAQALNPLGPSAMFYLA AAVSDFYVPVSEMPEHKIQSSGGPLQITMKMVPKLLSPLVKDWAPKA
FIISFKLETDP AIVINRARKALEIYQHQQVVVANILESRQSFVFIIVTKDSETKLLLSRKK

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FIGURE 185

CGGGAGCGGAGAGCGGACCCCAGAGAGCCCTGAGCAGCCCCACCGCCGCCGCCGGCCTAGTTACCATCACACCCC
GGGAGGAGCCGCGAGCTGCCGCGAGCCGGCCCCAGTCACCATCACCGCAACCATGAGCAGCGAGGCCGAGACCCAGC
AGCCGCCGCCGCCGCCCCCCCCCGCCGCCCTCAGCGCCGCCGACACCAAGCCCGGCACTACGGGCAGCGGCG
CAGGGAGCGGIGGCCCGGGCGGCCTCACATCGGCGGCGCCTGCCGGCGGGGACAAGAAGGTCATCGCAACGAAGG
TTTTGGGAACAGTAAAAATGGTTCAATGTAAGGAACGGATATGGTTTCATCAACAGGAATGACACCAAGGAAGATG
TATTTGTACACCAGACTGCCATAAAGAAGAATAACCCAGGAAGTACCTTCGCAGTGTAGGAGATGGAGAGACTG
TGGAGTTTGAIGTTGTTGAAGGAGAAAAGGGTGCGGAGGCAGCAAATGTTACAGGTCCTGGTGGTGTTCAGTTC
AAGGCAGTAAATATGCAGCAGACCGTAACCAATTATAGACGCTATCCACGTCGTAGGGGTCCTCCACGCAATTACC
AGCAAAATTACCAGAATAGTGAGAGTGGGGAAAAGAACGAGGGATCGGAGAGTGCTCCCGAAGGCCAGGCCCAAC
AACGCCGGCCCTACCGCAGGCGAAGGTTCCACCTTACTACATGCGGAGACCCTATGGGCGTCGACCACAGTATT
CCAACCCCTCCTGTGCAGGGAGAAGTGATGGAGGGTGCTGACAACCAGGGTGCAAGGAGAACAAGGTAGACCAGTGA
GGCAGAATATGTATCGGGGATATAGACCACGATTCCGCAGGGGCCCTCCTCGCCAAAGACAGCCTAGAGAGGACG
GCAATGAAGAAGATAAAGAAAATCAAGGAGATGAGACCCAAGGTCAGCAGCCACCTCAACGTCGGTACCGCCGCA
ACTTCAATTACCGACGCAGACGCCCAGAAAACCCTAAACCACAAGATGGCAAAGAGACAAAAGCAGCCGATCCAC
CAGCTGAGAATTGTCCTCCGCTCCCGAGGCTGAGCAGGGCGGGGCTGAGTAAATGCCGGCTTACCATCTCTACCATC
ATCCGGTTTAGTCATCCAACAAGAAGAAATATGAAATTCCAGCAATAAGAAATGAACAAAAGATTGGAGCTGAAG
ACCTAAAGTGCTTGCTTTTGGCCGTTGACCAGATAAATAGAACTATCTGCATTATCTATGCAGCATGGGGTTTT
TATTATTTTTACCTAAAGACGTCTCTTTTGGTAATAACAAACGTGTTTTTTAAAAAAGCCTGGTTTTTCTCAAT
ACGCCTTTAAAGG

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FIGURE 186

MSSEAETQQPPAAPPAAPALSAADTKPGTTGSGAGSGGPGGLTSAAPAGGDKKVIATKVLGTVKWFNVRNGYGF I
NRNDTKEDVFVHQTAIKKNNPRKYLSVGDGETVEFDVVEGEKGAEAAANTGPGGVPVQGSKYAADRNHYRRYPR
RRGPPRNYQQNYQNSGESGEKNEGSESAPEGQAQRRPYRRRRFPPYYMRRPYGRRPQYSNPPVQGEVMEGADNQG
AGEQGRPVQRNMYRGYRPRFRRGPPRQRQPREDCNEEDKENQDETQGGQPPQRRYRRNFNYRRRRPENPKPDG
KETKAADPPAENSSAPEAEQGGAE

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FIGURE 187

GGCGGGTGGCTGGCGGTTCCGTTAGGTCTGAGGGAGCGATGGCGGTACGCGCGTTGAAGCTGCTGACCACACTGC
TGGCTGTCTGTTGGCCGCTGCCTCCCAAGCCGAGGTGAGTCCGAGGCAGGATGGGGCATGGTGACGCCTGATCTGC
TCTTCGCGGAGGGGACCGCAGCCTACGCGCGCGGGGACTGGCCCGGGGTGGTCTGAGCATGGAACGGGCGCTGC
GCTCCCGGGCAGCCCTCCGCGCCCTTCGCTGCGCTGCCGCACCCAGTGTGCCGCGGACTTCCCGTGGGAGCTGG
ACCCCGACTGGTCCCCAGCCCGGCCAGGCCTCGGGCGCGCGCCCTGCGCGACCTGAGCTTCTTCGGGGGCC
TTCTGCGTTCGCGCTGCCTGCCTGCGCCGCTGCCTCGGGCCGCGGGCCGCCCCACTCGCTCAGCGAAGAGATGGAGC
TGGAGTTCCGCAAGCGGAGCCCTTACAACCTACCTGCAAGTTCGCTTCAAGATCAACAAGTTGGAGAAAGCTG
TTGCTGCAGCACACACCTTCTTCGTGGGCAATCCTGAGCACATGGAAATGCAGCAGAACCCTAGACTATTACCAAA
CCATGTCTGGAGTGAAGGAGGCCGACTTCAAGGATCTTGAGACTCAACCCCATATGCAAGAATTTGACTGGGAG
TGCGACTCTACTCAGAGGAACAGCCACAGGAAGCTGTGCCCCACCTAGAGGCGGCGCTGCAAGAATACTTTGTGG
CCTATGAGGAGTGCCGTGCCCTCTGCGAAGGGCCCTATGACTACGATGGCTACAACCTACCTTGAGTACAACGCTG
ACCTCTTCCAGGCCATCACAGATCATTACATCCAGGTCTCAACTGTAAGCAGAAGTGTGTACGGAGCTTGCTT
CCCACCAAGTCGAGAGAAGCCCTTTGAAGACTTCTCCCATCGCATTATAATTATCTGCAGTTTGCCTACTATA
ACATTGGGAATTATACACAGGCTGTTGAATGTGCCAAGACCTATCTTCTTCTTCCCCAATGACGAGGTGATGA
ACCAAAATTTGGCCTATTATGCAGCTATGCTTGGAGAAGAACACACCAGATCCATCGGCCCCCGTGAGAGTGCCA
AGGAGTACCGACAGCGAAGCCTACTGGAAAAAGAACTGCTTTTCTTCGCTTATGATGTTTTTGGAAATTCCTTTG
TGGATCCGATTTCATGGACTCCAGAAGAAGTGATTCCCAAGAGATTGCAAGAGAAACAGAAGTCAGAACGGGAAA
CAGCCGTACGCATCTCCAGGAGATTGGGAACCTTATGAAGGAAATCGAGACCCTTGTGGAAGAGAAGACCAAGG
AGTCACTGGATGTGAGCAGACTGACCCGGGAAGGTGGCCCCCTGCTGTATGAAGGCATCAGTCTCACCATGAACT
CCAAACTCCTGAATGGTTCCAGCGGGTGGTGATGGACGGCGTAATCTCTGACCACGAGTGTGAGGAGCTGCAGA
GACTGACCAATGTGGCAGCAACCTCAGGAGATGGCTACCGGGGTGAGACCTCCCCACATACTCCCAATGAAAAGT
TCTATGGTGTCACTGTCTTCAAAGCCCTCAAGCTGGGGCAAGAAGGCAAAGTTCTCTGAGAGTGCCACCTGT
ACTACAACGTGACGGAGAAGGTGCGGCGCATCATGGAGTCTACTTCCGCTGGATACGCCCTCTACTTTTCTCT
ACTCTCATCTGGTGTGCCGCACTGCCATCGAAGAGGTCCAGGCAGAGAGGAAGGATGATAGTCATCCAGTCCACG
TGGACAACCTGCATCTGAATGCCGAGACCCTCGTGTGTGTCAAAGAGCCCCCAGCCTACACCTTCCGCGACTACA
GCGCCATCCTTTACCTAAATGGGGACTTCGATGGCGGAACTTTTATTCTACTGAACTGGATGCCAAGACCGTGA
CGGCAGAGGTGCAGCCTCAGTGTGGAAGAGCCGTGGGATTCTCTTCAGGCACTGAAAACCCACATGGAGTGAAGG
CTGTCACCAGGGGGCAGCGCTGTGCCATCGCCCTGTGGTTACCCCTGGACCCTCGACACAGCGAGCGGGTGAGAG
CAGCTCGAGCGGGTGAGAGCAGCTGGTGTGTGGTGACCCGTTCCAGAGCGCCCTTGGTTGCCTTTCTCTTCC
CCAAATCCCATTGCCAGTGGCTGAGACACGAAAGGAGCACTTGGGACACCAGCTCCAACGCCCTGTCAATTATGGT
CACATTGCCTTGTCTCCCTGGGCTGCTGTGAACGGGATCCAGGTGGGGAAAGAGGTCAAGACAGGGAGCGATG
CTGAGTTCTTGGTTCCCTCCCTTGGGCCCCACTTCAGTGTCTTTTCCAGAGAGTAGGACCTGCTGGGAAGGAGA
TGAGCCTGGGGCCATTAAAGGAACCTTCTTGTCCCTGGGAAGTAGCAGCTGAGAGATAGCGAGTGTCTGGAGCG
GAGGCCCTCTCTGAATGGGCAGGGGTTGTCTTGCAGGACAGGGTGCAGGCAGATGACCTGGTGAAGATGCTCTT
CAGCCCAGAAGAGATGGACCTTCCCAGGAGCAGCCCTGGATGCCAGCAGGGTCCCCCGAACCTGCACAAAGA
GTCTCTCTCAGGCAGTGAATCGAAGCCCAAGGATGAGCTATGACAGCGTCCAGGTCCAGGTCCAGACGGATGGGTGACTAGA
CCCATGGAGAGGAACCTTCTGCACTCTGAGCTGGCCAGCCCTCGGGGCTGCAGAGCAGTGAGCCTACATCTGC
CACTCAGCCGAGGGGACCTGCTCACAGCCTTCTACATGGTGTCTACTGCTCTTGGAGTGGACATGACCAGACACC
GCACCCCTGGATCTGGCTGAGGGCTCAGGACACAGGCCAGCCACCCCGAGGGGCTCCACAGGCCGCTGCATG
ACAGCGATACAGTACTTAAGTGTCTGTGTAGACAACCAAGAATAAATGATTCATGGTTTTTTTT

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FIGURE 188

TAGTCGCGGGTCCCCGAGTGAGCACGCCAGGGAGCAGGAGACCAAACGACGGGGGTCGGAGTCAGAGTCGCAGTG
GGAGTCCCCGGACCGGAGCACGAGCCTGAGCGGGAGAGCGCCGCTCGCACGCCCGTCGCCACCCGCGTA¹CCGGC
GCAGCCAGAGCCACCAGCGCAGCGCTGCCATGAGCCAGCAGCAAGAAGCTGACGGGTGCGCTCATGCTGGCTG
TGGGAGGAGCAGTGCTTGGCTCCCTGCAGTTTGGCTACAACACTGGAGTCATCAATGCCCCCAGAAGGTGATCG
AGGAGTTCTACAACCAGACATGGGTCCACCGCTATGGGGAGAGCATCCTGCCACCACGCTCACCACGCTCTGGT
CCCTCTCAGTGGCCATCTTTTCTGTTGGGGGCATGATTGGCTCCTTCTCTGTGGGCCTTTTCGTTAACCGCTTTG
GCCGGCGGAATTCATGCTGATGATGAACCTGCTGGCCTTCGTGTCCGCCGTGCTCATGGGCTTCTCGAAACTGG
GCAAGTCCTTTGAGATGCTGATCCTGGGCCGCTTCATCATCGGTGTGTACTGCGGCCTGACCACAGGCTTCGTGC
CCATGTATGTGGGTGAAGTGTACCCACAGCCTTTCGTGGGGCCCTGGGCACCCTGCACCAGCTGGGCATCGTCG
TCGGCATCCTCATCGCCAGGTGTTCCGGCTGGACTCCATCATGGGCAACAAGGACCTGTGGCCCCCTGCTGTGA
GCATCATCTTCATCCCGGCCCTGCTGCAGTGCATCGTGTGCCCTTCTGCCCCGAGAGTCCCGCTTCTGTCTCA
TCAACCGCAACGAGGAGAACC²GGGCCAAGAGTGTGCTAAAGAAGCTGCGCGGGACAGCTGACGTGACCCATGACC
TGCAGGAGATGAAGGAAGAGAGTCGGCAGATGATGCGGGAGAAGAAGTCAACATCCTGGAGCTGTTCCGCTCCC
CCGCTACCGCCAGCCCATCTCATCGCTGTGGTGTGTCAGCTGTCCCAGCAGCTGTCTGGCATCAACGCTGTCT
TCTATTACTCCACGAGCATCTTCGAGAAGGCGGGGTGCAGCAGCCTGTGTATGCCACCATTGGCTCCGGTATCG
TCAACACGGCCTTCACTGTCTGTGCTGTTTGTGGTGGAGCGAGCAGGCCGGCGGACCCTGCACCTCATAGGCC
TCGCTGGCATGGCGGGTGTGCCATACTCATGACCATCGCGCTAGCACTGCTGGAGCAGCTACCCTGGATGTCTT
ATCTGAGCATCGTGGCCATCTTTGGCTTTGTGGCCTTCTTTGAAGTGGGTCTGGCCCCATCCCATGGTTTCATCG
TGGCTGAACCTCTTCAGCCAGGGTCCACGTCCAGCTGCCATTGCCGTTGCAGGCTTCTCCAAGTGGACCTCAAATT
TCATTGTGGGCATGTGCTTCCAGTATGTGGAGCAACTGTGTGGTCCCTACGTCTTCATCATCTTCACTGTGCTCC
TGTTTCTGTTCTTCATCTTCACCTACTTCAAAGTTCCTGAGACTAAAGGCCGGACCTTCGATGAGATCGCTTCCG
GCTTCCGGCAGGGGGGAGCCAGCCAAAGTGATAAGACACCCGAGGAGCTGTTCCATCCCCTGGGGGCTGATTCCC
AAGTGTGAGTCGCCCCAGATCACCAGCCCGCCTGCTCCAGCAGCCCTAAGGATCTCTCAGGACACAGGACG
TGGATGAGACTTCCAAACCTGACAGATGTCAGCCGAGCCGGCCTGGGGCTCCTTTCTCCAGCCAGCAATGATGT
CCAGAAGAATATTCAGGACTTAACGGCTCCAGGATTTTAAACAAAGCAAGACTGTGCTCAAATCTATTGAGACA
AGCAACAGGTTTTATAATTTTTTATTACTGATTTTGTATTTTATATATCAGCCTGAGTCTCCTGTGCCACATC
CCAGGCTTCACCTGAATGGTTCATGCCTGAGGGTGGAGACTAAGCCCTGTGAGACACTTGCCTTCTTCACCC
AGCTAATCTGTAGGGCTGGACCTATGTCTAAGGACACACTAATCGAATATGAACTACAAAGCTTCTATCCCAG
GAGGTGGCTATGGCCACCCGTTCTGCTGGCCTGGATCTCCCACCTCTAGGGGTGAGGCTCCATTAGGATTTGCC
CTTCCCATCTCTTCTACCCAACCACTCAAATTAATCTTCTTTACCTGAGACCAGTTGGGAGCACTGGAGTGCA
GGGAGGAGAGGGGAAGGGCCAGTCTGGGCTGCCGGGTTCTAGTCTCCTTTGCACTGAGGGCCACACTATTACCAT
GAGAAGAGGGCCTGTGGGAGCCTGCAAACCTCACTGCTCAAGAAGACATGGAGACTCCTGCCCTGTTGTGTATAGA
TGCAAGATATTTATATATATTTTTGGTTGTCAATATTAAATACAGACACTAAGTTATAGTATATCTGGACAAGCC
AACTTGTAATACACCACCTCACTCCTGTTACTTACCTAAACAGATATAAATGGCTGGTTTTT³AGAAACATGGTT
TTGAAATGCTTGTGGATTGAGGGTAGGAGGTTTGGATGGGAGTGAGACAGAAGTAAGTGGGGTTGCAACCACCTGC
AACGGCTTAGACTTCGACTCAGGATCCAGTCCCTTACACGTACCTCTCATCAGTGTCTCTTGCTCAAAAATCTG
TTTGATCCCTGTTACCCAGAGAATATATACATTCTTTATCTTGACATTCAAGGCATTTCTATCACATATTTGATA
GTTGGTGTTCAAAAAACACTAGTTTTGTGCCAGCCGTGATGCTCAGGCTTGAAATCGCATTATTTTGAATGTGA
AGGGAA

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FIGURE 189

MEPSSKKLTGRMLAVGGAVLGSLQFGYNTGVINAPQKVIEEFYNQTVVHRYGESILPTTLTTLWSLSVAIFSVG
GMIGSFVGLFVNRFGRNSMLMMNLLAFVSAVLMGFSKLGKSFEMILGRFIIIGVYCGLTTGFVPMYVGEVSPT
AFRGALGTLHQLGIVVGILIAQVFGLD SIMGNKDLWPLLLSIIFIPALLQCIVLPFCPESPRFLLINRNEENRAK
SVLKKLRGTADVTHDLQEMKEESRQMMREKKVTILELFRSPAYRQFILI AVLQLSQQLSGINAVFYSTISIFEK
AGVQQPVYATIGSGIVNTAFTVVSLEFVVERAGRRTLHLIGLAGMAGCAILMTIALALLEQLPWMSYLSIVAIFGF
VAFFEVGPPIPWFIVAELFSQGPRPAAIAVAGFSNWTSNFIVGMCFOYVEQLCGPYVFIIFTVLLVLFFIFTYF
KVPETKGRTFDEIASGFRQGGASQSDKTPEELFHPLGADSQV

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FIGURE 190

CACGTCGTTACGGCCTTCTTCGGCCCTCTAGCACGACATTGAGGCCTGGCTTCAGAAGCCCTCGGGAAAACGC
ATCCTGCAACTCTCTGTCTGTGACAAGGGATTTCATCGGATTCCGACTCCGAATCCGAGAGCGGGGAGTGTCCAT
CTCGCCGCACGCACGTCCACACAGCTACTGCTCAACTTTTGATTGGGACTTCCGCTTCCGGCGGCAAACCATAC
TTCCGGTTTGTCTGTGCTATAGGAACCGCTACGGCGTTTGAAAGTGTCGGGTTGCTTAGGATCCCTACAGGTAG
CGCTCTGGATACATGCGTGGTCTGCTGACCCAGAGAGAAACGAAAGCAGAAGTGTGGCGGGAGATCATGTCA
GCCGTGGTAGCTCAGACGCTGCATGTTTTTGGTCTTCGATCCACGTGGCCAACAATATCTTCTACTTCGATGAA
CAGATCATTATATTTCCTTCAGGAAATCACTGTGTGAAGTACAATGTGGATCAGAAATGGCAAAAATTCAATCCA
GGCTCAGAGAAGAGTCAGGGCATGTTGGCCTTGTCCATCAGTCCCAATCGGCGGTACCTCGCTATCTCTGAGACT
GTGCAAGAAAAACCTGCCATCACCATTATGAATTGTCATCCATCCCTTGCCGGAAGCGCAAAGTTCTTAATAAT
TTTGACTTCCAAGTTCAGAAATTTATTAGCATGGCTTTTCTCCAGACTCCAAATACCTATTGGCTCAGACGTCA
CCTCCAGAGTCAAACTTGTCTACTGGCTGTGGGAAAAACAGAAAGTAATGGCCATTGTTAGAATCGACACTCAG
AACACCCTGTCTACCAGGTGAGCTTCAGTCCACAGGATAACACTCAGGTGTGTGTCACTGGAAATGGGATGTTT
AAGCTTCTCCGTTTTGCTGAGGGAACCTGAAGCAAACAGCTTTTCAGAGGGGAGAACCCAAAACCTATCTAGCC
CACACCTGGGTGGCTGATGACAAGATTGTCGTTGGCACTGACACAGGCAAACCTCTTCCTTTTGAATCTGGAGAT
CAGCGTTGGGAGACCAGCATAATGGTCAAGGAACCTACCGATGGCTCAAAGAGCCTGGATGTCATTAGGAATCA
GAGAGCCTGATTGAATTTCCACCAGTCAGTTCTCCACTCCCTTCCTATGAACAGATGGTGGCGGCCAGTAGCCAT
AGCCAGATGTCCATGCCCCAGGTGTTGCCATTGCAGCCTATTCAAAGGGATTTCCTGTTCTGCTGGGCCAGGG
AGAGTTCTGCTGTTTGAGAAGATGGAAGAAAAGGATTTTACCGTGAGAGCAGAGAAATCAGGATTCTGTGGAC
CCGAGAGCAATGATCCAAGTCAGTCTGACAAACAGGACGTTCTCTGCTGTGCTTCAGCCCTCAGAGGAAACT
CTGGTTGCCAGCACAGTAAGAACCCTCTACAGCATCACCATGTCCCTGACAGAGATCAGCAAGGGAGCCTGC
TCACTTTGAGTATTGATGTATCCATTGCACTCAGCACCCATCACCGGTCTAGCTACCTGCATCCGCAAACCCCT
TATAGCCACCTGTTCTCTGGATCGATCCATCCGCTTTTGAATTATGAAACAAACACCCTGGAATATTTAAGGA
ATACCAAGAAGAGGCATATTCCATCAGCCTTCATCCATCTGGACACTTCATTGTAGTAGGGTTTGTGACAACT
ACGCCCTCATGAATCTACTCATTGATGATATACGTTCTTTCAAAGAATACTCTGTTAGAGGATGCGGAGAGTGTTC
CTTTAGCAATGGAGGTACCTGTTTGTGTCAGTCAATGGAAATGTGATTACGTTTACACCACCACGAGCCTAGA
GAACATCTCAAGCCTGAAAGGACACACAGGGAAGATTGCGTCAATTGTGTGGAATGCAGATGATAGCAAACTGAT
TTCTGGTGGCACAGATGGTGTGTGTATGAATGGAATCTGTCCACAGGAAAGAGAGAGACAGAATGCGTGTCAA
GTCTTGACAGCTACAACCTGTGTTACTGTCTCCCCCGATGCCAAAATTATCTTTGCTGTTGGATCAGACCACCCCT
CAAGGAGATTGCAGATTCCCTTGCCCTTCGAGAGATATCGGCGTTTTGATGTCACCTACACCGCCATTGTCATCTCGC
ATTCTGGACGCATGATGTTTGTGGGCACCTCGGTGGGAACCATTCGTGCCATGAAGTACCCTCTGCCTCTGCAGA
AGGAATTCATGAGTACCAGGCCATGCCGGTCTATCACCAAGGTGAGCAGGGCCCTCTCCCCAGGAACCCAGT
CCCACACCTGCCTGCTACGTGCCTTGTTCATCCCTTCAACCTCCCAATGTCTTTTCTCTCTCCTTCTCTCTT
ATTTATTTCATCCATCATTGATGAATCACCATCTATTGACTATGAATATACTCTTTGTTTAACTACTTCCAGGA
ATTTAGCCTAGGAAATCATCAGAGATACACCTAAAAATGTATGTACAACGTTTTACCCATAATATTATGCATAAT
AAGGGGCCGTTTGGTGGATGCCGTAGCTGCCGTGAGTGTGGGCTGCACTTGACCACAGCTGCCTCCTCCTCCAGA
GAATGCCCCAGACTGAAAGGAGCCATAGCCCTGAAGATTGGCCCTTACCTCTCCCTGAGGGTACAAAAGGCCACC
CCAGGGGCAATACCATGAGTACACATTTGTAAATTGTCTTCCATTACCCCTTCTCATAAAGTAGTATCTATGTT
CAACAGTCAAAATGTGGAAGCAACCAAGCATCCATCGACAGACGAATGCATAAGCAAAAGATGGTATATCTATAC
AATGGAACAATACCCTGCCTAAAAAGGAAGGGAATTCTGCAATGTGCTACCACATGGATGAACCTTGAGGATGTT
ATGCTAAATTAATAAGGCCAACCAAAAAAGATAAGTACAGTGTGATTCCACTTTTAGGAGATACTTGGAGCAG
TCAGAATCACAAAGACAGAGTGGTGGTTGGCAGGGGCTGCAGGAAGGGGGAATGAGGAATGATTGTTTCATAGGT
ATAGAGTTTTGGTTTTACAAGACAAAAGGATTATGGGGGTAGTTGGTGGCAATGGCTGCACAACATTACAAATGT
ATTTAATAACATGAACTGTACACTTGAAAATGGTTAAGATAGCAAATTTACAGAATATGTATTTTACGACAATT
TTAAAAATGAAATAAAAAAGAATTATCTTGC

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FIGURE 191

MSAVVAQTLHVFGLRSHVANNIFYFDEQIIIFPSGNHCVKYNVDQKWQKFIPGSEKSQGM LALSISPNRRYLAI S
ETVQEKPAITIIYELSSIPCRKRKVLNDFQVQKFISMAFSPDSKYLLAQTSPPE SNLVYWLWEKQKVMAIVRID
TQNNPVYQVSFSPQDNTQVCVTGNGMFKLLRFAEGTLKQTSFQGE PQNYLAHTWVADDKIVVGTD TGKLFLFES
GDQRWETSIMVKEPTNGSKSLDVIQESLIEFPPVSSPLPSYEQMVAASSHSQMSMPQVFAIAAYSKGFACSAG
PGRVLLFEKMEEKDFYRESREIRIPVDPQSNDFPSQSDKQDVLCLCFSPSEETLVASTSKNQLYSI TMSLTEISKG
EPAHFEYLMYPLHSAPITGLATCIRKPLIATCSLDRSIRLWNYETNTLELFKEYQEEAYSISLHPSGHFIVVGFA
DKLRLMNL LIDDIRSFKEYSVRGCGECSFSNGGHLFAAVNGNVIHVYTTTSLENIS SLKGHTGKSLNCVECR

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FIGURE 192

GCGATTTCGGTGGCACGTGGAGCCACGGCGTGGGAGTAGGGGGCTGAAGGCAGGCAGCAGCGGCCAGGGCCGCCCT
CTGCTAGCCGCTTGGGTCTCGGGATACCCCGTTTCTTCTGTAGGTGTGGGACGTGCGTGCGGCGAGATGGACAC
-TCCCCCGCTCTCGGATTTCGGAGTCGGAATCCGATGAATCCCTTGTACAGACAGAGAGTTGCAGGATGCGTTTTTC
CCGAGGGCTTCTGAAGCCAGGCCTCAATGTCGTGCTAGAGGGGCCGAAGAAGGCCGTGAACGACGTGAATGGCCT
GAAGCAATGTTTGGCAGAATTCAAGCGGGATCTGGAATGGGTGAAAGGCTCGATGTGACACTGGGTCCGGTACC
GGAGATCGGTGGATCTGAGGCGCCAGCACCTCAGAACAGGACCAGAAAGCTGTTGATCCAGAAGACGACTTCCA
GCGAGAGATGAGTTTTCTATCGCCAAGCCCAGGCCGCGAGTGCTTGCACTTACCCCGCTCCATCAGCTCAAAGT
CCCTACGAAGCGACCCACTGATTATTTGCGGAAATGGCCAAATCTGATCTGCAGGTGCAGAAGATTTCAGACAGAA
GCTGCAGACTAAACAGGCTGCCATGGAGAGGTCTGAAAAGCTAAGCAACTGCGAGCACTTAGGAAATACGGGAA
GAAGGTGCAAACGGAGGTTCTTCAGAAGAGGCAGCAGGAGAGAAAGCCCATATGATGAATGCTATTAAGAAATATCA
GAAAGGCTTCTCTGATAAACTGGATTTCCTTGAGGGAGATCAGAAACCTCTGGCACAGCGCAAGAAGGCAGGAGC
CAAAGGCCAGCAGATGAGGAAGGGGCCAGTGCTAAACGACGGTATAAAAACCAGAAGTTTGGTTTTGGTGGAAA
GAAGAAAGGCTCAAAGTGGAACTCGGGAGAGCTATGATGATGTATCTAGCTTCCGGGCCAAGACAGCTCATGG
CAGAGGCCTCAAGAGGCCTGGCAAGAAAGGGTCAAATAAGAGACCTGGAAAACGAACAAGAGAGAAGATGAAGAA
CAGAACACACTTAAATAGCATCTTTGAATACAAAGAACCAAGAAAAGGAATGAAGACTCGCAATTTACGACACA
CTTTGATCCCTTCTGTTGGTGTCTGTTGTAAACATTTCTTTCAATAAACTAAAGAAAAATTATTAAAGGAACAC
ATACCTTTGGTTAAATAGTCTAGACTAAAAGATTGAGAAGTTACTTTCCATTGCTATCTATTGATAATTTAGACA
TTGAGTTCAAATTGCCTTCATTTTATGATAAATAATGATTAACTGAAAA

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FIGURE 193

MDTPPLSDSESESLVTDRELQDAFSRGLLKPGGLNVVLEGPKKAVNDVNLKQCLAEFKRDLEWVERLDVTLG
PVPEIGGSEAPAPQNKDQKAVDPEDDFQREMSFYRQAQAAVLAVLPRHLKVP TKRPTDYFAEMAKSDLQVQKI
RQKLQTKQAAMERSEKAKQLRALRKYGKKVQTEVLQKRQOEKAHMMNAIKKYQKGFSDKLDLFLEGDQKPLAQRKK
AGAKGQOMRKGPSAKRRYKNQKFGFGGKKKGSKWNTRESYDDVSSFRAKTAHGRGLKRP GKKGSNKRPGKRTREK
MKNRTH

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FIGURE 194

CCACGCGTCCGGGCGTAAGCCAGGCGTGTTAAAGCCGGTCGGAAC TGCTCCGGAGGGCACGGGCTCCGTAGGCAC
CAACTGCAAGGACCCCTCCCCCTGCGGGCGCTCCCATGGCACAGTTCGCGTTTCGAGAGTGACCTGCACTCGCTGC
TTCAGCTGGATGCACCCATCCCCAATGCACCCCTGCGCGCTGGCAGCGCAAAGCCAAGGAAGCCGAGGCCCGG
CCCCCTCACCCATGCGGGCCGCCAACCGATCCCACAGCGCCGGCAGGACTCCGGGGCCGAACCTCTGGCAAATCCA
GTTCCAAGGTTTCAGACCACTCCTAGCAAACCTGGCGGTGACCGCTATATCCCCCATCGCAGTGCTGCCCAGATGG
AGGTGGCCAGCTTCCTCCTGAGCAAGGAGAACCAGTCTGAAAACAGCCAGACGCCCACCAAGAAGGAACATCAGA
AAGCCTGGGCTTTGAACCTGAACGGTTTTTGATGTAGAGGAAGCCAAGATCCTTCGGCTCAGTGGA¹AAACCACAAA
ATGCGCCAGAGGGTTATCAGAACAGACTGAAAGTACTCTACAGCCAAAAGGCCACTCCTGGCTCCAGCCGGAAGA
CCTGCCGTTACATTCCCTTCCCTGCCAGACCGTATCCTGGATGCGCCTGAAATCCGAAATGACTATTACCTGAACC
TTGTGGATTGGAGTTCTGGGAATGTACTGGCCGTGGCACTGGACAACAGTGTGTACCTGTGGAGTGCAAGCTCTG
GTGACATCCTGCAGCTTTTGCAAATGGAGCAGCCTGGGGGAATATATATCCTCTGTGGCCTGGATCAAAGAGGGCA
ACTACTTGGCTGTGGGCACCAGCAGTGCTGAGGTGCAGCTATGGGATGTGCAGCAGCAGAAACGGCTTCGAAATA
TGACCAGTCACTCTGCCCCAGTGGGCTCCCTAAGCTGGAACAGCTATATCCTGTCCAGTGGTTACGTTCTGGCC
ACATCCACCACCATGATGTTTCGGGTAGCAGAACACCATGTGGCCACACTGAGTGGCCACAGCCAGGAAGTGTGTG
GGCTGCGCTGGGCCCCAGATGGACGACATTTGGCCAGTGGTGGTAATGATAACTTGGTCAATGTGTGGCCTAGTG
CTCCTGGAGAGGGTGGCTGGGTTCCTCTGCAGACATTACCCAGCATCAAGGGGCTGTCAAGGCCGTAGCATGGT
GTCCCTGGCAGTCCAATGTCTGGCAACAGGAGGGGGCACCAGTGATCGACACATTCGCATCTGGAATGTGTGCT
CTGGGGCCTGTCTGAGTGCCGTGGATGCCCATTTCCAGGTGTGCTCCATCCTCTGGTCTCCCCATTACAAGGAGC
TCATCTCAGGCCATGGCTTTGCACAGAACCAGCTAGTTATTTGGAAGTACCCAACCATGGCCAAGGTGGCTGAAC
TCAAAGGTCACACATCCCGGGTCCTGAGTCTGACCATGAGCCCAGATGGGGCCACAGTGGCATCCGCAGCAGCAG
ATGAGACCTGAGGCTATGGCGCTGTTTTGAGTTGGACCCTGCGCGGCGGGGAGCGGGAGAAGGCCAGTGCAG
CCAAAAGCAGCCTCATCCACCAAGGCATCCGCTGAAGACCAACCCATCACCTCAGTTGTTTTTTATTTTTCTAAT
AAAGTCATGTCTCCCTTCATGTTTTTTTTTTTAAAA

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FIGURE 195

MAQFAFESDLHSLQLDAPIPNAPPARWQRKAKEAAGPAPSPMRAANRSHSAGRTPGRTPGKSSSKVQTTPSKPG
GDRYIPHRSAQMEVASFLLSKENQSENSQTPTKKEHQKAWALNLNGFDVEEAKILRLSGKQPQNAPEGYQNRLKV
LYSQKATPGSSRKTCRYIPSLPDRILDAPeirNDYYLNLVDWSSGNVLAVALDNSVYLWSASSGDILQLLQMEQP
GEYISSVAWIKEGNYLAVGTSSAEVQLWDVQQQKRLRNMTSHSARVGSLSWNSYILSSGSRSGHIIHHHDVRVAEH
HVATLSGHSQEVCGLRWAPDGRHLASGGNDNLVNVWPSAPGEGGWVPLQTFTQHQGAVKAWCPWQSNVLTATGG
GTSDRHIRIWNVCSGACLSAVDAHSQVCSILWSPHYKELISGHGFAQNQLVIWKYPTMAKVAELKGHTSRVLSLT
MSPDGATVASAAADETLRLWRCFELDPARRREREKASAAKSSLIHQGIR

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FIGURE 196

GGCACGAGGGAACCGTCCGCAGCCGCCGGAGCCGGGAGCCCTGCCCAAGTCGGAGCGGCGTCCCCTGCTGAGCCC
CGAGCGCCGGGCCAGCAGCCGGATGCCCGGGCCCACTGGGCGGGCCAGTGGCCGCTGCGGGATGAGCAGACTGC
TGGGGGGGACGCTGGAGCGGTCTGCAAGGCTGTGCTCCTTCTCTGCCTGCTGCACTTCCTCGTGGCCGTCATCC
TCTACTTTGACGTCTACGCCCAGCACCTGGCCTTCTTCAGCCGCTTCAGTGGCCGAGGCCCTGCCCATGCCCTCC
ACCCAGCTGCTAGCAGCAGCAGCAGCAGCAGCAACTGCTCCCGGCCCAACGCCACCGCCTCTAGCTCCGGGCTCC
CTGAGGTCCCCAGTGCCCTGCCCCGTCCCACGGCTCCCACGCTGCCACCCTGTCTGACTCGCCACCTGGTCTTG
CGGGTGCACAGGGAGAACCAGGCGTGCTCATGGGCGGGCCGATACACACCGCCCGACTGCACCCAGCCCAGACG
GTGGCGGTGTCATCATCCCTTTAGACACCGGGAACACCACCTGCGCTACTGGCTCCACTATCTACACCCCATCTTG
AGGCGGCAGCGGCTGCGCTACGGCGTCTATGTATCAACCAGCATGGTGAGGACACCTTCAACCGGGCCAAGCTG
CTTAACGTGGGCTTCTTAGAGGCGCTGAAGGAGGATGCCGCTATGACTGCTTCATCTTCAGCGATGTGGACCTG
GTCCCATGGATGACCGCAACCTATACCGCTGCGGCGACCAACCCCGCCACTTTGCCATTGCCATGGACAAGTTT
GGCTTCCGGCTTCCCTATGTGCTGGCTACTTTGGAGGTGTGTGTCAGGCCTGAGTAAGGCTCAGTTTCTGAGAATCAAT
GGCTTCCCAATGAGTACTGGGGCTGGGGTGGCGAGGATGATGACATCTTCAACCGGATCTCCCTGACTGGGATG
AAGATCTCACGCCCAGACATCCGAATTGGCCGCTACCGCATGATCAAGCACGACCGCGACAAGCATAACGAACCT
AACCCTCAGAGGTTTACCAAGATTCAAACACGAAGCTGACCATGAAGCGGGACGGCATTGGGTGAGTGGGTTAC
CAGGTCTTGAGGTTGTCTCGGCAACCACTCTTACCAATATCACAGTGGACATTGGGCGGCCTCCGTCGTGGCCC
CCTCGGGGCTGACACTAATGACAGAGGCTCTCGGTGCCGAAGATTGCCCTGCCAGAGGACTGACCACAGCCTGGC
TGGCAGCTGCTCTGTGGAGGACCTCCAGGACTGAGACTGGGCTCTGTTTTCCAAGGGTCTTCACTAGGCCCCCTA
GCTACACCTGGAAGTTTCAAGAACCACTTTGGGGGGCTCCTGCTGGGCAGGCTCTTCAAGTGTGGCCCTCTTT
GGAGTCAACCTCCTTCCCGACCCCCCTCCCCCTAGCCCAGCCCCAGTCACTGTGAGGTGCGGCCAGCCCCCTGCA
CTGCCTCGCAGAGTGGCCTGGGCTAGGTCACTCCACCTCTCTGTGCTCAGTTTCCCCCCTTGAGTCCCTTAGG
GCCTGGAAGGGTGGGAGGTATGTCTAGGGGGCAGTGTCTTCCAGGGGGAATTCTCAGCTCTTGGGAACCCCTT
TGCTCCCAGGGGAGGGGAAACCTTTTTTATTCAACATTGTAGGGGGCAAGCTTTGGTGCGCCCTGCTGAGGAG
CAGCCCCAGGAGGGGACCAGAGGGGATGCTGTGTGCTGCTGGGATCTTGGGGTTGGCCTTTGCATGGGAGGCA
GGTGGGGCTTGGATCAGTAAGTCTGGTTCCCGCCTCCCTGTCTGAGAGAGGAGGCAGGAGCCCCAGGGCCGGCTT
GTGTTTGTACATTGCACAGAACTTGTGTGGGTGCTTTAGTAAAAAACGTGAATGGAAAAAAAAAAAAAAAAAAAA

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FIGURE 197

MSRLLGGTLERVCKAVLLLCLLHFLVAVILYFDVYAQHIAFFSRFSARGPAHALHPAASSSSSSNCSRPNATAS
SSGLPEVPSALPGPTAPTLPPCPDSPPGLAGAQGEPRRAHGRPIHTARLHPSPDGGGHHPL

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FIGURE 198

CCCAGTGCCCTGCCCCGGTCCCACGGCTCCCACGCTGCCACCCTGTCCTGACTCGCCACCTGGTCTTGTGGGCAGA
CTGCTGATCGAGTTCACCTCACCCATGCCCCCTGGAGCGGGTGCAGAGGGCCTGGAAGGGTGGGAGGTATGTCTAG
GGGGCAGTGTCTCTTCCAGGGGGAATTCTCAGCTCTTGGGAACCCCTTGCTCCCAGGGGAGGGGAAACCTTTTT
CATTCAACATTGTAGGGGGCAAGCTTTGGTGCGCCCTGCTGAGGAGCAGCCCCAGGAGGGGACCAGAGGGGAT
GCTGTGTCGCTGCCTGGGATCTTGGGGTTGGCCTTTGCATGGGAGGCAGGTGGGGCTTGGATCAGTAAGTCTGGT
TCCCGCTCCCTGTCTGAGAGAGGAGGCAGGAGCCCCAGGGCCGGCTTGTGTTGTACATTGCACAGAACTTGT
GTGGGTGCTTTAGTAAAAAACGTGAATGG

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FIGURE 199

GCCAGCAGCCGGATGCCCCGGGCCACTGGGCGGGCCAGTGGCCGCCTGCGGGATGAGCAGACTGCTGGGGGGGAC
GCTGGAGCGCTCTGCAAGGCTGTGCTCCTTCTCTGCCTGCTGCACTTCCTCGTGGCCGTCACTCTACTTTGA
CGTCTACGCCCAGCACCTGGCCTTCTTCAGCCGCTTCAGTGCCCGAGGCCCTGCCCATGCCCTCCACCCAGCTGC
TAGCAGCAGCAGCAGCAGCAGCAACTGCTCCCGGCCCAACGCCACCGCCTCTAGCTCCGGGCTCCCTGAGGTCCC
CAGTGCCCTGCCCCGTCCACGGCTCCACGCTGCCACCTGTCTGACTCGCCACCTGGTCTGTGGGCAGACT
GCTGATCGAGTTACCTCACCCATGCCCTGGAGCGGGTGACAGGGAGAACCAGGCGTGCTCATGGGCGGCCG
ATACACACCGCCCGACTGCACCCAGCCAGACGGTGGCGGTCACTATCCCTTTAGACACCGGGAACACCACCT
GCGTACTGGCTCCACTATCTACACCCATCTTGAGGCGGCAGCGGCTGCGCTACGGCGTCTATGTCATCAACCA
GCATGGTGAGGACACCTTCAACCGGGCCAAGCTGCTTAACGTGGGCTTCCTAGAGGCGCTGAAGGAGGATGCCGC
CTATGACTGCTTCACTTCAGCGATGTGGACCTGGTCCCCATGGATGACCGCAACCTATACCGCTGCGGCACCA
ACCCGCCCACTTTGCCATTGCCATGGACAAGTTGGCTTCGGCTTCCTATGCTGGCTACTTTGGAGGTGTGTC
AGGCTGAGTAAGGCTCAGTTTCTGAGAATCAATGGCTTCCCAATGAGTACTGGGGCTGGGGTGGCGAGGATGA
TGACATCTTCAACCGATCTCCCTGACTGGGATGAAGATCTCACGCCAGACATCCGAATCGGCCGCTACCGCAT
GATCAAGCACGACCGCGACAAGCATAACGAACCTAACCTCAGAGGTTTACCAAGATTCAAACACGAAGCTGAC
CATGAAGCGGGACGGCATTGGGTGAGTGGGTACCAGGTCTTGAGGTGTCTCGGCAACCACTCTTCACCAATAT
CACAGTGGACATTGGGCGGCCTCCGTCTGTGGCCCCCTCGGGCTGACACTAATGGACAGAGGCTCTCGGTGCCGA
AGATTGCCTGCCAGAGGACTGACCACAGCTGGCTGGCAGCTGCTCTGTGGAGGACCTCCAGGACTGAGACTGGG
CTCTGTTTTTCAAGGCTCTTCAAGTGTGGCCCTCTTTGGAGTCAACCTCCTTCCCGACCCCTCCCCCTAGCCCAGC
TGCTGGGCAGGCTCTTCAAGTGTGGCCCTCTTTGGAGTCAACCTCCTTCCCGACCCCTCCCCCTAGCCCAGC
CCCAGTCACTGTCAGGGTTCGGGCCAGCCCTGCACTGCCTCGCAGAGTGGCTGGGCTAGGTCACTCCACCTCTC
TGTGCCTCAGTTTCCCCCCTTGAGTCCCTAGGGCTTGAAGGGTGGGAGGTATGTCTAGGGGGCAGTGTCTCT
TCCAGGGGGAATTCAGCTCTTGGGAACCCCTTGCTCCAGGGGAGGGGAAACCTTTTTTCATTCAACATTGTA
GGGGGCAAGCTTTGGTGCGCCCCCTGCTGAGGAGCAGCCCCAGGAGGGGACCAGAGGGGATGCTGTGTCGCTGCC
TGGGATCTTGGGGTTGGCCTTTGCATGGGAGGCAGGTGGGGCTTGGATCAGTAAGTCTGGTTCCCGCCTCCCTGT
CTGAGAGAGGAGGCAGGAGCCCCAGGGCCGGCTTGTGTTGTACATTGCACAGAACTTGTGTGGGTGCTTTAGT
AAAAAACGTGAATGG

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FIGURE 200

MSRLLGGTLERVCKAVLLLCLLHFLVAVILYFDVYAQHLAFFSRFSARGPAHALHPAASSSSSSSSNCSRPNATAS
SSGLPEVPSALPGPTAPTLPPCPDSPPGLVGRLLIEFTSPMPLERVQRENPGLMGGRYTPPDCTPAQTVAVIIP
FRHREHHLRYWLHYLHPILRRQRLRYGVYVINQHGEDTFNRAKLLNVGFLEALKEDAAYDCFIFSDVDLVPMDDR
NLYRCGDQPRHFAIAMDKFGFRLPYAGYFGGVSGLSKAQFLRINGFPNEYWGWGGEDDDIFNRISLTGMKISRPD
IRIGRYRMIKHDRDKHNEPNPQRFTKIQNTKLTMKRDGIGSVRYQVLEVSROPLFTNITVDIGRPPSWPPRG

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FIGURE 201

GCGGAGAAACAGTAGTTAGGATGGCTGAAGGGGATACTCACCGGCTGAAGGCCGACTGTGATTCCCCCTACCCCC
ACAAGGCGATTTTGACCCCTGAGGGCTGCTCTAGAGGACTCAGGCCCCGAAGCTGTCCCAGGGAGGTCCCCGCT
GCATCCCACCAACCAAGCTGTGCCTCATGGAGTCGATGTTTAGCAGCCCTGCCGAGGCGGCGCTGCAGCGAGAGA
CCGGGGTGCCAGGACTGCTTACTCCTCTTCCGGACCTGGACGGAGTGACGAGCTGGAGCGAGTCGCTGGATTTG
TCCGCGACCTGGGGTGTGAACGAGTTGCCTTGCACTTCCCTGACCAGCTATTGGGAGATGCTGTGGCTGTGGCTG
CACGACTGGAGGAGACGACAGGGTCAAAGATGTTTATTCTGGGTGACACAGCCTACGGCAGCTGCTGCGTGGATG
TGCTGGGTGCTGAGCAAGCTGGAGCTCAGGCTCTCATACATTTTGGCCCTGCCTGCTTAAGCCCTCCAGCCCGCC
CACTGCCCCGTGCTTTCGTGCTTCGTCAACGTTCTGTGGCCTTGGAGCTCTGTGTCAAGGCCCTTTGAGGCCCAGA
ACCCAGACCCCAAAGCGCCTGTGGTGTCTGAGTGAGCCGGCCTGTGCCCATGCCCTGGAGGCTTTGGCTACTC
TCCTGCGCCACGGTACCTGGACCTGCTAGTCTCCAGCCAGCTTTTCCCCAACCAGTGGGTTCCCTGAGTCCAG
AGCCTATGCCCTAGAGCGTTTGGGCGCGCTTCCCCCTTGCCCCAGGGAGGCGTCTAGAAGAGTATGGTGCCT
TCTATGTAGGGGGCTCTAAGGCCAGCCCTGACCCAGACCTTGACCCAGACCTGAGTCGGCTGCTCTTGGGGTGGG
CACCAGGTCAACCTTCTCCTCTGCTGTCCAGATACAGGGAAGACTCAGGATGAGGGTGGCCGGGCTGGACGGC
TAAGGGCACGAAGACGATATCTGGTAGAGAGGGCCAGAGATGCCCGCGTGGTAGGGCTGCTGGCAGGCACACTGG
GTGTAGCCCAACACCGTGAGGCACTGGCCCACTTGCGGAACCTGACTCAGGCTGCTGGCAAGCGTAGCTATGTGT
TGCCCTGGGGCGGCCACCCCTGCCAAGCTTGCCAACCTTCCCTGAGGTGGATGTCTTTGTGCTATTAGCCTGTC
CTCTGGGTGCTCTAGCCCCCAGCTTTCTGGTAGCTTCTTCCAGCCTATACTGGCACCATGTGAGCTGGAAGCTG
CCTGCAACCTTGCTGGCCACCTCCAGGCTGGCTCCCCACCTCACACATTATGCGGACTTATTGCTGGCTCTC
CCTTCCAGTGGCTCTCCACACCTGAGTCAGAGCTGTGGGAAACCCAGACGTGTCACTCATTACTGGAGATC
TCCGACCCCACTGCTGGAAGTCATCAAATGATCATGGAAGCTTGGCTCTGACCCACGGCCCCAGCTGGAGC
TGGCTGAGAGCAGTCTGCAGCCTCATTCCTTAGTTCCTGGAGCTGGCAAGGGCTGGAGCCCCGCTGGGTCAGA
CGCCAGTGACAGAAGCTGTGAGTGGAAGACGAGGGATTGCCATCGCCTATGAGGATGAGGGAAGCGGCTGATACC
ATGTGGGGCTGGAGACATAGATGGACTTATGAATGGCTGCTAGGACCTTTAGTGCTCCCTGCACCAACCTCCCAT
CCCCCTGCCAAGATCCTTGAAGGACCCTGGAAGGAGGGAGAGCAGGCAGCCCTTCACAGGATAGGATCCGTCTCT
GTCCTGTCTGGCACTGGCACAAGCTCAGCCCATGCCAGTAATGCGTGTGTTTGGCTGATGGAATAAAGGGCT
TAGGGACTTCCCTGAGGCCTCTGGACCATCTGTCTTCTGAGGGCAGCCAGGACCTTTGGCCAATCCCAGTTC
CCAGGCTGCAGTTGAGGGTCTGTCTTGTCAAAGGCAGGTGCTAGACAGTCTAGACCAGGGTTTCTCAAACCTCG
TACTTGACATTTGGGGCCAGATAATTCTTTGTGTGGGGCTGTCTGGTGTATGGTAGGGTGCTCAGCAGCATCCC
TGGCCTCTGCCCACTAGACATCAGAAGCACTCCCCAGTTGTGACAACCAAAAATATCTCCAGACCTTGGCAAAT
GTTATCTGTGGGGGAAAATTGCCCTCAATTGAGAACCACTGGTCTAGCTAGACCTGCACTGTCCAGTACAGTAGC
CACTAAATACATGTGGCTAAACTTAAATTAAGTTAATTAAGATTAAAGCTCAGTTTCTCAGTCACATTAGTCA
TTCAAGTGTTTACAGACGCCACATGAGGGGACAGTGCACTACAGGATATGCCATCATGGCAGAAAGTTCTGTTGG
TTGGACAGCGTTGGTCTATACTGACTCTTATTTCTCAGGGAGATCACAGCAACCTAAATAAACCAGATACCTTTT
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FIGURE 202A

GCCTTCGCCTGCTGGAAAAGCAGTAGGATCGGCCAGTGGCGACAGCAGGAGCTGAGCCTAAGCCCTGGCGGGGCT
TTGGGTGTAGATTCTGTCTGACTAAAGGACCTCAAAAAGGAGGGAAAATGGCTTCTGAGTCTGAAACTCTGA
ATCCCACTGCTAGGATAATGACCTTTTATCCAACATATGGAAGAGTTCCGAAACTTCAGTAGATACATTGCCTACA
TTGAATCCCAAGGAGCTCATCGGGCAGGGCTAGCCAAGGTTGTTCCTCCAAAAGAGTGGAAGCCACGAGCATCCT
ATGATGACATTGATGATTTGGTCATTCTGCCCCATTCAACAGCTGGTGACGGGGCAGTCTGGCCTCTTTACTC
AGTACAACATACAGAAGAAAGCCATGACTGTTGAGAGGTTCCGCAAGATAGCCAATAGCGATAAGTACTGTACCC
CACGCTATAGTGAGTTTGAAGAGCTCGAGCGGAAATACTGGAAAAATCTTACATTCAATCCTCCAATCTATGGTG
CAGATGTGAATGGTACCCTCTATGAAAAGCATGTTGATGAGTGGAATATTGGCCGGCTGAGAACAACTCTGGACT
TGGTGGAAAAGGAGAGTGGAATCACCATTGAGGGTGTGAACACCCCATACCTGTACTTTGGCATGTGGAAGACAT
CCTTTGCTTGGCACACIGAAAGACATGGACCTCTACAGCATCAACTACCTGCACCTTTGGAGAACCAAAAGTCTGGT
ACTCTGTTCCACCTGAGCATGGAAAGCGGTTGGAACGCCTCGCCAAAGGCTTTTCCCAGGAAGTGCTCAAAGCT
GTGAGGCAATTTCTCCGCCACAAGATGACCTGATTTCCCGTTAATGCTGAAGAAAATATGGAATTCCCTTTGACA
AGGTGACTCAAGAGGCTGGAGAGTTTATGATCACTTTCCCTTATGGTTACCATGCCGGCTTTAACCATGGTTTTA
ACTGTGCGGAGTCTACCAATTTTGTACCCGTCGGTGGATTGAGTACGGCAAGCAAGCTGTGCTGTGCTCCTGTA
GAAAGGACATGGTGAAGATCTCCATGGATGTGTTGTGAGAAAGTTCCAGCCAGAAAGGTACAACTTTGGAAAG
CTGGGAAGGACAACACAGTTATTGACCATACTCTGCCACGCCAGAAGCAGCTGAGTTTCTTAAGGAGAGTGAAC
TGCCCTCCAAGAGCTGGCAACGAGGAGGAGTGCCAGAGGAGGACATGGAAGGGGTGGAGGATGGAGAGGAAGGAG
ACCTGAAGACAAGCCTGGCCAAGCACCGAATAGGGACAAAGAGGCACCGAGTTTGTCTTGAATACCAAGGAGG
TGAGTCAGAGTGAGCTCTTCCCAAGGAGGATCTGAGTTCTGAGCAGTATGAGATGACGGAGTGCCCGGCAGCCC
TCGCCCCGTGTGAGGCCCACCCATAGCTCTGTGCGGCAAGTTGAGGATGGTCTTACCTTCCCAGATTATTCTGACT
CCACTGAAGTCAAATTTGAAGAGCTTAAAAATGTCAAAGTAGAAGAGGAGGATGAGGAGGAAGAACAAGAAGCAG
CTGCCCTGGATCTTTCTGTGAATCCTGCGTCTGTAGGGGGACGCCTTGTCTTCTCAGGCTCCAAAAGAAATCAT
CTTCTAGCCTGGGCTCTGGCTCTTACGGGATTCTATCTCTCTGATTGAGAACTAGTGAGCCTCTCTCTGCC
GAGCCCAAGGGCAAACGGGAGTTCTCACTGTGCACAGTTATGCCAAAGGGGATGGCAGGGTCACTGTGGGAGAGC
CATGCACGAGGAAGAAAGGAAGCGCCGCTAGAAGTTTCACTGAGCGGGAGCTGGCAGAGGTTGCAGATGAATACA
TGTTTTCCCTAGAAGAGAATAAGAAGTCCAAGGGACGCCGTGAGCCTTTAAGCAAGCTCCCCGCCATCACCCAC
TTGTGCTGCAGGAGTGTGTCACTGATGATGAGACATCTGAACAGCTGACCCCTGAGGAAGAGGCTGAGGAGACAG
AGGCCTGGGCCAAGCCTCTGAGCCAACGTGGCAGAACCGACCTCCAACTTTGAGGCTGAGAAGGAATTCAATG
AGACCATGGCCCAACAGGCCCCCTCACTGCGCTGTCTGTATGATCTTCCAGACTTATCATCAGGTTGAATTTGGAG
GCTTTAATCAGAACTGTGGAAATGCTTCAGATTTAGCCCCCAGAAGCAGAGGACCAAGCCATTGATTCCAGAAA
TGTGCTTCACTTCGACTGGCTGCAGCAGGACATCAACCTTTCTACTCCTTATCTTGAGGAGGATGGCACCAGCA
TACTCGTTTCTGCAAGAAGTGCAGCGTCCGGGTCCATGCCAGTTGCTATGGGGTCCCCCTGCAAGGCTTCTG
AAGACTGGATGTGTTCTCGGTGTTACGCCAATGCCCTAGAGGAGGACTGCTGTTTATGCTCATTACGAGGAGGGG
CCCTGCAGAGAGCAAATGATGACAGGTGGGTCCACGTTTCATGTGCTGTGGCAATCTGGAAGCAAGGTTTGTCA
ACATTGCAGAAAGAAGTCCGGTGGATGTGAGCAAAATCCCCCTGCCCCGCTTCAAAGTGAATGTATCTTCTGTA
AGAAGCGGAGGAAAAGAAGTCTGGCTGCTGTGTGTCAGTGTCTCACGGCCGCTGCCAACTGCCCTCCATGTGA
GCTGCGCCAGGCTGCCGGTGTGATGATGCAGCCTGACGACTGGCCTTTTGTGGTCTTCATTACCTGCTTTCGGC
ACAAGATTCCTAATTTGGAGCGTGCCAAGGGGGCCTTGCAAGCATCACTGCAGGCCAGAAAGTCATTAGCAAGC
ATAAGAACGGGCGCTTCTACCACTGTGAAGTGGTCAGGCTCACCACCGAGACCTTCTATGAAGTCAACTTTGATG
ATGGCTCCTTCAGCGACAATCTTTATCCTGAGGACATAGTGAGCCAGGACTGTCTCCAGTTTGGTCTCTCTGCTG
AAGGGGAAGTGGTCCAAGTGAGATGGACAGACGGCCAAGTCTATGGAGCCAAGTTTGTGGCCTCCACCCCTATCC
AAATGTACCAGGTGGAGTTTGAAGATGGCTCAAACTTGTGGTTAAGAGAGATGATGTATACACTGGATGAAG
AGCTTCCCAAGAGAGTCAAATCTAGACTGTCACTAGCCTCAGACATGCGCTTCAATGAGATTTTACAGAGAAAG
AGGTTAAGCAAGAAAAGAAACGGCAACGAGTTATCAACTCAAGATACCGGGAAGATTATATTGAGCCTGCACAT
ACCGGGCCATCATGGAGTAGGTGCTTCCAGGGTCCAAGGGATTCTCAGCCATCCAGGCAAGAGCACTCTGGGTTT
CACAGCACAGCAGACATGGAACGCTGAAGTCTCTGAAAGTGAAGTTGTAAAAAGAAAAGGAATGAATAACCGAC
CCATCATCTTCTACCCACCCTCATTGCATTCCGCTGTAGTGAAAGGACGAGCCATTTCTGGGCACGTGGCAGCA
GTCGCTGATCTCCAGCTGAGGGGCTGAGCACTGGAATGCTGTGGCTGCACTGGCCCCAGTCCATAGAGGGGTCA

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FIGURE 202B

ACTATGCTGGCTGGACTGGCTGCCTTGTTCTGGCCTAGGACTTAGCTTCATAACTATCACCTGCACCGACTAGG
CTGAGGTGCTGGTACTTGCCCCAACCCTACTTTTGTATTTATATGTGTGTGTGTGTGTGCGTGCGTGCGTGCGT
GCGTGTATGTTTGGTCTGGACCAGCTTCTGCCAGCCCCTGGCCTTTACTTTCTTCCTTGCCTATGCAGGGCAAAC
AAAATGTGAAATTCTGCCCTCAGCTGAGCTGAGTAAGGGCTCCTGGGGGTTGGCTGGAGATGGGTGTGGCATCTG
TCCAGGCCTGGAACCGTCTCAAGACAGTGCTGGCAAAGCTGCAGTATTGAGATGCTAAGGAGCTGATGCCACCTC
TTTGTCTTCCCCTAAAGGAGAACATGGGGATAACATGGGTGTGTGCCCACAACACTCTAGGTGCAGAGCCCCTGT
GGCAAAGTATTACAGGGTGTGGGTGGGGATTACCTGAATCGGGGATTTTAATGATGGAAGCAGGCAGAGCCTGG
TGGGTGATTCTGTCAACAGAAAAATTGCAATCATGCAGGGGCTGGGAGGGTTAGGATGAAAAAACTGGGGCCATTG
GAGGCCCACTGTAGGTGGGAGGGAGCTGATTTGGGGTGGGGGTGGGACTAGAGGGCAATACTGAAGGGGTTAA
ACAGGTTTTTGCTCCTCAAGAATTTGTTTGCTGGGCCCAGGATTGGAGGGCTTCACACCAATACCCTGTGTATA
CAAGAATCAGATTTATAATACTTCCCCTTTTTTGTACGTATGAACACTATAAACCAAATTATTTTG

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FIGURE 203

MASESETLNPSARIMTFYPTMEEFRNFSRYIAYIESQGAHRAGLAKVVPPKEWKPRASYDDIDDLVIPAPIQQLV
TGQSGLFTQYNIQKKAMTVREFRKIANSKYCTPRYSEFEELERKYWKNLTFNPPIYGADVNGTLYEKHVDEWNI
GRLRTILDLEKESGITIEGVNTPYLYFGMWKTSFAWHTEDMDLYSINYLHFGEPKSWYSVPPEHGKRLERLAKG
FFPGSAQSCEAFLRHKMTLISPLMLKKYGIPFDKVTQEAGEFMITFPYGYHAGFNHGFNCAESTNFATRRWIEYG
KQAVLCSCRKDMVKISMDVFRKFQPERYKLWKAGKDNVTIDHTLPTPEAAEFLKESELPPRAGNEEECPEDME
GVEDGEEGDLKTSLAKHRIGTKRHRVCLEIPQEVVSQSELPKEDLSSEQYEMTECPAALAPVRPTHSSVRQVEDG
LTFPDYSDSTEVEKFEELKNVKEEEDDEEEQEAAALDSLVPNPASVGGRLVFSGSKKKSSSSLSGSGSSRDSISSDS
ETSEPLSCRAQGQTGVLTVHSYAKGDGRVTVGEPCTRKKGSAARSFSERELAEVADEYMFSLLENKKSKGRQPL
SKLPRHHPLVLQECVSDDTSEQLTPEEEAEETEAWAKPLSQLWQNRPPNFEEAEKFNETMAQQAPHCAVCMIFQ
TYHQVEFGGFNQNCGNASDLAPQKQRTKPLIPEMCFSTSTGCSTDINLSTPYLEEDGTSILVSCKKCSVRVHASY
GVPPAKASEDWMCSRCSANALEEDCCLCSLGGALQRANDDRWVHVSCAVAILEARFVNIAERSPVVDVSKIPLPR
FKLKCIFCKKRRKRTAGCCVQC SHGRCP TAFHVSCAQAGVMMQPDWPFVVFITCFRHKIPNLERAKGALQSIT
AGQKVISKHKNRFRFYQCEVRLTTETFYEVNFDDGSFSDNLYPEDIVSQDCLQFGPPAEGEVVQVRWTDGQVYGA
KFFVASHPIQMYQVEFEDGSQLVVKRDDVYTLDEELPKRVKSRLSVASDMRFNEIFTEKEVKQEKRRQRVINSRYR
EDYIEPALYRAIME

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FIGURE 204

AGTTACAGACAGCTGACCATGGAAGCGAATGGGTTGGGACCTCAGGGTTTTCCGGAGCTGAAGAATGACACATT
CTGCGAGCAGCCTGGGGAGAGGAAACAGACTACACTCCCGTTTGGTGATGCGCCAGGCAGGCCGTTACTTACCA
GAGTTTAGGGAAACCCGGGCTGCCCAGGACTTTTTTCAGCACGTGTCGCTCTCCTGAGGCCTGCTGTGAAGTACT
CTGCAGCCACTGCGTCGCTTCCCTCTGGATGCTGCCATCATTTTCTCCGACATCCTTGTGTACCCAGGCACTG
GGCATGGAGGTGACCATGGTACCTGGCAAAGGACCCAGCTTCCCAGAGCCATTAAGAGAAGAGCAGGACCTAGAA
CGCCTACGGGATCCAGAAGTGGTAGCCTCTGAGCTAGGCTATGTGTTCCAAGCCATCACCTTACCCGACAACGA
CTGGCTGGACGTGTGCCGCTGATTGGCTTTGCTGGTGCCCCATGGACCTGATGACATACATGGTTGAGGGTGGT
GGCTCAAGCACCATGGCTCAGGCCAAGCGCTGGCTCTATCAGAGACCTCAGGCTAGTCACCAGCTGCTTCGCATC
CTCACTGATGCTCTGGTCCCATATCTGGTAGGACAAGTGGTGGCTGGTGCCAGGCATTGCAGCTGTTTGAGTCC
CATGCAGGGCATCTTGGCCACAGCTCTTCAACAAGTTTGACTGCCTTACATCCGTGATGTGGCCAAAGCAAGTG
AAGGCCAGGTTGCGGGAGGCAGGCCTGGCACCAGTGCCCATGATCATCTTTGCTAAGGATGGGCATTTTGCCCTG
GAGGAGCTGGCCCAAGCTGGCTATGAGGTGGTTGGGCTTGACTGGACAGTGGCCCCAAAGAAAGCCGGGAGTGT
GTGGGGAAGACGGTGACATTGCAGGGCAACCTGGACCCCTGTGCCTTGTATGCATCTGAGGAGGAGATCGGGCAG
TTGGTGAAGCAGATGCTGGATGACTTTGGACCACATCGCTACATTGCCAACCTGGGCCATGGGCTTTATCCTGAC
ATGGACCCAGAACATGTGGGCGCCTTTGTGGATGCTGTGCATAAACAACCTCACGTCTGCTTCGACAGAACTGAGTG
TATACCTTTACCCTCAAGTACCACTAACACAGATGATTGATCGTTTCCAGGACAATAAAAGTTTCGGAGTTGAAC
TATTGTGTAGTTTGTGTTGTGAAAGATTGTGCCCATATCCTCAGTTCTTCTTAGCCTCTGCTCCTTCCCTGGGAA
CCCTCTCTATATCCTCTT

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FIGURE 205

MEANGLGPQGFPPELKNDTFLRAAWGEETDYTPVWCMRQAGRYLPEFRETRAQQDFFSTCRSPEACCELTLOPLRR
FPLDAAIIFSDILVVPQALGMEVTMVPGKGPSFPEPLREEQDLERLRDPEVVASELGYVFQAITLTRQRLAGRVP
LIGFAGAPWTLMTYMVEGGGSSTMAQAKRWLYQRPQASHQLLRILTDALVPYLVGQVVAGAQAALQLFESHAGHLG
PQLFNKFALPYIRDVAKQVKARLREAGLAPVPMIIFAKDGHFALEELAQAGYEVVGLDWTVPKKARECVGKTVT
LQGNLDPCALYASEEEIGQLVKQMLDDFGPHRYIANLGHGLYPDMDPEHVGAFVDAVHKHSRLLRQN

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FIGURE 206

AGCTTTGCGCAGTGGCAGTATCGTAGCCAATGAGGTTTATCCGAGGCGCGATTATTGCTAATTGAAAACCTTTTCC
CAATACCCCGCCATGACGACTTGAAATATAGTCGGCATTGGCAATTTTTGACAGTCTCTACGGAGACTGCATGTG
CTGGTGAAGCTCCTGGAAGTGATGGAAGGAATGGACAAGGAGACGTTTGAGTTCAAGTTTGGGAAGGAACATAACA
TTCACCACTGTACTGAGTGACCAACAGGTGGTGGAGCTGATCCCTGGGGGTGCAGGCATCGTCGTGGGATATGGG
GACCGTTCTCGTTTTCATCCAACCTGGTCCAGAAGGCACGGCTAGAGGAGAGCAAGGAGCAGGTGGCAGCTATGCAG
GCAGGTCTGCTGAAGGTGGTACCACAGGCTGTGCTGGACTTGCTGACCTGGCAAGAGTTGGAGAAGAAAGTGTGT
GGGGATCCAGAGGTCACTGTGGATGCTCTGCGCAAGCTCACCCGGTTTGAGGACTTCGAGCCATCTGACTCGCGG
GTGCAGTATTTCTGGGAGGCACCTGAACAACCTTCACCAACGAGGACCGGAGCCGCTTCCTGCGCTTTGTACGGGC
CGCAGTCGCGCTGCCAGCACGGATCTACATCTACCCAGACAAGCTGGGCTACGAGACCACAGACGCGCTGCCCGAG
TCTTCCACTTGCTCCAGCACCCCTCTTCCTGCCACACTATGCCAGTGCCAAGGTATGCGAGGAGAAGCTCCGCTAT
GCGGCCTACAACCTGCGTGGCCATCGACACTGACATGAGCCCTTGGGAGGAGTGAAGGCGTGCCGCCGGCTGTGGGA
CCAGCAAGACTGCACGTGTCCCTCTTGGCCTTGCCCAGGGCGAAGACACCTTCCTGCCCTGGTTTGGCTGACGT
GCTCAGCAAAACCCCATGTGCCCTGCTCCTGTGTGAGTTGGGGTAGGGGCAGCTGGCATGGTCAGGTAACACTA
GTGGCCAGCCCCGAGACCCACAAGCCCTACCCGTGCTGGGGCTTGCTTCCCGAGGTATTTACCTCTTAAGAG
GGAATCTTCCACAAGCCCAGCACAGCTGCCAGGCCTGAGCTACTTGAAGGGGGCCATCTAGGTCCCCAACCCAT
GGACTTTGCCTCCATTTTCAGCTCCGCCTTTTTTCTCTATTTTCTCTCTGGCTTCTTCAGCCATGACTCACAA
CTAAAAACATAAAACACTGGAGGTTAGTGGAGGCCCTCCCAAGCAGGGAGCCTGGGATGGGCAGGGAGTGATA
GCCAACTCCTTGGTCACCTGCTCCAAGAAGGAAGCAGTAGCTGAGCACCTGCCCTCACATACTGCTCTTTTCCC
CTCTCCCTCCACACCAGAGATGTGGTGAGCTCTGTTCTTCTACCAACCCAGTCTCAACACACAAAGTGCCACCAC
CTTCCCTGACTCAGAACCCACATCCACTCAATGTGAACCTACTACCACGACCTCCCCATATTCTCACTTCTCC
ATCACCCTCCAGCCTGACTCCCTGTCTGCCCTTTCACCCCAAGATTTTGACAGGTTAAGGCCAGTTATGGCCTT
TTTGAAATCTGTAATAGCTCCCTTTCCCCAACTCTAAAGCCTAGACCTTAAACCTGTTTCTAGAGCTATGCACA
CCCCTGCCCCAGTTTACCGTTCCCTCCTCAGGGCCTCCGTGACACTCCATGAAAAGAAGTTCTTGATACCGGAA
AGTTGAATAAATGGATGAATTCAAAAAAAAAAAAAAAAAA

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FIGURE 207

MEGMDKETFEFKFGKELTFTTVLSDQQVVELIPGGAGIVVGYGDRSRFIQLVQKARLEESKEQVAAMQAGLLKVV
PQAVLDLLTWQELEKKVCGDPEVTVDALRKLTRFEDFEPDSRVQYFWEALNFTNEDRSRFLRFVTGRSRLPAR
IYIYPDKLGYETTDALPESSTCSSTLFLPHYASAKVCEEKLRYYAAYNCVAIDTDMSPWEE

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FIGURE 208

CACAATGGTGCGCATGAATGCCCTGGCAGATGCTCTCAAGAGCATCAACAATGCCGAAAAGAGAGGCAAACGCCA
GGTGCTTCTTAGGCCATGCTCCAAAGTCATCGTCCAGTTTCTCACTGTGATGATGAAGCATGGTTACATTGGCGA
ATTTGAAATCACTGATGATCACAGAGCTGGGAAAATTGTTGTGAACCTCACAGGCAGGCTAAACAAGTGTGGAGC
GATCAGCCCCAGATTTGATGTGCAACTCAAAGATCTGGAAAAATGGCAGAATAATCTGCTTCCATCCCGCCAGTT
TGATTTCAATTGTACTGACAACCTCAGCTGGCATCATGGACCATGAAGCAAGACGAAAACACACAGGAGGGAAAAT
CCAGGGATTCTTTTTCTAGGGATGTAATACATATATTTACAAATAAAATGCCTCAAGGAC

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FIGURE 209

MVRMNALADALKSINNAEKRGRQVLLRPCSKVIVQFLTVMMKHGYIGEFEITDDHRAGKIVVNLTGRLNKC
SPRFDVQLKDLEKWQNNLLPSRQDFIVLTTSAGIMDHEARRKHTGGKIQGFFF

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FIGURE 210

CTCTTTCCAGCCAGCGCCGAGCGATGGGCATCTCTCGGGACAACCTGGCACAAAGCGCCGCAAAACCGGGGGCAAGA
GAAAGCCCTACCACAAGAAGCGGAAGTATGAGTTGGGGCGCCAGCTGCCAACACCAAGATTGGCCCCCGCCGCA
TCCACACAGTCCGTGTGCGGGGAGGTAACAAGAAATACCGTGCCCTGAGGTTGGACGTGGGGAATTTCTCCTGGG
GCTCAGAGTGTTGTACTCGTAAACAAGGATCATCGATGTTGTCTACAATGCATCTAATAACGAGCTGGTTCGTA
CCAAGACCCTGGTGAAGAATTGCATCGTGTCTCATCGACAGCACACCGTACCGACAGTGGTACGAGTCCCACTATG
CGCTGCCCCCTGGGCCGCAAGAAGGGAGCCAAGCTGACTCCTGAGGAAGAAGAGATTTTAAACAAAAACGATCTA
AAAAAATTCAGAAGAAATATGATGAAAGGAAAAAGAATGCCAAATCAGCAGTCTCCTGGAGGAGCAGTTCCAGC
AGGGCAAGCTTCTTGCGTGCATCGCTTCAAGGCCGGGACAGTGTGGCCGAGCAGATGGCTATGTGCTAGAGGGCA
AAGAGTTGGAGTTCTATCTTAGGAAAATCAAGGCCCGCAAAGGCAAATTAAATTCCTTGTTTTGTCTTACCCATGT
AATAAAGGTGTTTATTGTTTTGTTCCACA

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FIGURE 211

MGISRDNWHKRRKTGGKRKPYHKKRKYELGRPAANTKIGPRRIHTVRVRGGNKKYRALRLDVGNFSWGSECCTRK
TRIIDVVYNASNNELVRTKTLVKNCIVLIDSTPYRQWYESHYALPLGRKKGAKLTPEEEEILNKKRSKKIQKKYD
ERKKNAKISSLLEEQFQQGKLLACIASRPGQCGRADGYVLEGKELEFYLRKIKARKGK

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FIGURE 212

ACGCTTGCGCGCGGGATTAAACTGCGGCGGTTTACGCGGCGTTAAGACTTCGTAGGGTTAGCGAAATTGAGGTT
TCTTGGTATTGCGCGTTTCTCTTCCTTGCTGACTCTCCGAATGGCCATGGACTCGTCGCTTCAGGCCCCGCTGTT
TCCCGGTCTCGCTATCAAGATCCAACGCAGTAATGGTTTAATTCACAGTGCCAATGTAAGGACTGTGAACCTGGA
GAAATCCTGTGTTTCAGTGGAATGGGCAGAAGGAGGTGCCACAAAGGGCAAAGAGATTGATTTTGATGATGTGGC
TGCAATAAACCCAGAACTCTTACAGCTTCTTCCCTTACATCCGAAGGACAATCTGCCCTTGACAGGAAAATGTAAC
AATCCAGAAACAAAACGGAGATCCGTCAACTCCAAAATTCCTGCTCCAAAAGAAAGTCTTCGAAGCCGCTCCAC
TCGCATGTCCACTGTCTCAGAGCTTCGCATCACGGCTCAGGAGAATGACATGGAGGTGGAGCTGCCTGCAGCTGC
AAACTCCCGCAAGCAGTTTTTCAGTTCCTCCTGCCCCCACTAGGCCTTCCTGCCCTGCAGTGGCTGAAATACCATT
GAGGATGGTCAGCGAGGAGATGGAAGAGCAAGTCCATTCCATCCGAGGCAGCTCTTCTGCAAACCTGTGAACCTC
AGTTCGGAGGAAATCATGTCTTGTGAAGGAAGTGGAAAAATGAAGAACAAGCGAGAAGAGAAGAAGGCCAGAA
CTCTGAAATGAGAATGAAGAGAGCTCAGGAGTATGACAGTAGTTTTTCCAACTGGGAATTTGCCGAATGATTAA
AGAATTTTCGGGCTACTTTGGAATGTCTCACTTACTATGACTGATCCTATCGAAGAGCACAGAATATGTGTCTG
TGTTAGGAAACGCCCACTGAATAAGCAAGAATTGGCCAAAGAAAGAAATTGATGTGATTTCCATTCTAGCAAGTG
TCTCCTCTTGGTACATGAACCCAAGTTGAAAGTGGACTTAACAAAGTATCTGGAGAACCAAGCATTCTGCTTTGA
CTTTGCATTTGATGAAACAGCTTCGAATGAAGTTGTCTACAGGTTTACAGCAAGGCCACTGGTACAGACAATCTT
TGAAGGTGGAAAGCAACTTGTTTTGCATATGGCCAGACAGGAAGTGGCAAGACACATACTATGGGCGGAGACCT
CTCTGGGAAAGCCAGAATGCATCCAAAGGGATCTATGCCATGGCCTCCCGGGACGTCTTCTCCTGAAGAATCA
ACCCTGCTACCGGAAGTTGGGCCTGGAAGTCTATGTGACATTCTTCGAGATCTACAATGGGAAGCTGTTTGACCT
GCTCAACAAGAAGGCCAAGCTGCGCGTGCTGGAGGACGGCAAGCAACAGGTGCAAGTGGTGGGGCTGCAGGAGCA
TCTGGTTAACTCTGCTGATGATGTCTCAAGATGATCGACATGGGCAGCGCCTGCAGAACCTCTGGGCAGACATT
TGCCAACTCCAATTCTCCTCCGCTCCACGCGTGCTTCCAAATTATTCTTCGAGCTAAAGGGAGAATGCATGGCAA
GTTCTCTTTGGTAGATCTGGCAGGGAATGAGCGAGGCGCGGACACTTCCAGTGCTGACCGGCAGACCCGCATGGA
GGGCGCAGAAATCAACAAGAGTCTCTTAGCCCTGAAGGAGTGATCAGGGCCCTGGGACAGAAACAAGGCTCACAC
CCCGTTCCGTGAGAGCAAGCTGACACAGGTGCTGAGGGACTCCTTCATTGGGGAGAATCTAGGACTTGCAGATT
GCCACGATCTCACCAGGCATAAGCTCCTGTGAATATACTTTAAACACCCTGAGATATGCAGACAGGGTCAAGGAG
CTGAGCCCCACAGTGGGCCCAGTGGAGAGCAGTTGATTCAAATGGAAACAGAAGAGATGGAAGCCTGCTCTAAC
GGGCGCTGATTCCAGGCAATTTATCCAAGGAAGAGGAGGAAGTGTCTTCCAGATGTCCAGCTTTAACGAAGCC
ATGACTCAGATCAGGGAGCTGGAGGAGAAGGCTATGGAAGAGCTCAAGGAGATCATAAGCAAGGACCAGACTGG
CTTGAGCTCTCTGAGATGACCGAGCAGCCAGACTATGACCTGGAGACCTTTGTGAACAAAGCGGAATCTGCTCTG
GCCCAGCAAGCCAAGCATTCTCAGCCCTGCGAGATGTCATCAAGGCCTTGCGCCTGGCCATGCAGCTGGAAGAG
CAGGCTAGCAGACAAATAAGCAGCAAGAAACGGCCCCAGTGACGACTGCAAATAAAAAATCTGTTTGGTTTGACAC
CCAGCCTCTTCCCTGGCCCTCCCCAGAGAACTTTGGGTACCTGGTGGGTCTAGGCAGGGTCTGAGCTGGGACAGG
TTCTGGTAAATGCCAAGTATGGGGGCATCTGGGCCAGGGCAGCTGGGGAGGGGTCAGAGTGACATGGGACACT
CCTTTTCTGTTCCCTCAGTTGTGCGCCCTCACGAGAGGAAGGAGCTCTTAGTTACCCTTTGTGTTGCCCTTCTTTC
CATCAAGGGGAATGTTCTCAGCATAGAGCTTTCTCCGACGATCCTGCCTGCGTGGACTGGCTGCTAATGGAGAG
CTCCCTGGGGTTGTCTGGCTCTGGGGAGAGAGACGGAGCCTTTAGTACAGCTATCTGCTGGCTCTAACCTTCT
ACGCCTTTGGGCCGAGCACTGAATGTCTTGTACTTTAAAAAATGTTCTGAGACCTCTTCTACTTTACTGTCT
CCCTAGAGATCCTAGAGGATCCCTACTGTTTTCTGTTTTATGTGTTTATACATTGTATGTAACAATAAGAGAAA
AAATAAA

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FIGURE 213A

TAGGCAGGCGGGCTGAGCCGGCGGGGTGGCCTGCCAACGTGTGCTGGGTGGGAGAAGGCGAGGCGTCAGCGAT
GCTGTCTCTTCCGTGAGGAGCGCAGAGGAGGTGCGGGCGCCGAGGCCCCAGAAGGCTCGAAGGCGCCGCGGGCT
GGGGTCGGTGGCTTAGGGAGCCCGTCCGGCCATGGTGGCCGCGGGTGGTGGTTGGCGGGCTGCGCTGCGGCCCG
GGGCAGTGCAGGAGCCGGACAGTCGCGGGCGCTGACGCCGCGGGCCCCAGCTGCAGATATGAAGCGAGCCGCTG
CCGCGACCGACCGCAGCCGCCCGCCCCGACCGCGGGAGGATGGAGTTCAGCGGGCAGCGGAGCTGTCTCAGTC
TTTGCCGCCGCGCCGGCGAGCGCCCGGGAGGACGCGGCTGGAGGAGCGGACGGGCCCCGCGGGGCCGAGGG
CAAGGAGCAGGATGTAGTAACCTGGAGTTAGTCCCCTGCTCTTCAGGAACTCAGTAATCCTGACATATTTTCATC
CACTGGAAAAGTTAAACTTCAGCGACAACCTGAGTCAGGATGATTGTAAGTTATGGAGAGGAAACCTGGCCAGCTC
TCTATCGGGTAAGCAGCTGCTCCCTTTGTCCAGCAGTGTACATAGCAGTGTGGACAGGTGACTTGGCAGTCGTC
AGGAGAAGCATCAAACCTGGTTCGAATGAGAAACAGTCCCTTGGACAGTCTGCACCTTCTCTTACTGTGTCCT
GAAGGAGTTGAGCCTTCCAAGAAGAGGCAGCTTTTGTGCGACAAGTAACCGCAAGAGCTTGATTGTGACCTCTAG
CACATCACCTACACTACCACGGCCACACTCACCCTCCATGGCCACACAGGTAACAGTCCCTTGGACAGCCCCG
GAATTTCTCTCAAATGCACCTGCTCACTTTTCTTTGTTCTGCCCCTAGGACTGATGGGCGGCGCTGGTCTTT
GGCCTCTTTGCCCTCTTCAGGATATGGAACCTAACCTCCTAGCTCCTGCTCTCATCATGCTCCTCACAGGA
AAAGCTGCATCAGTTGCCTTTCCAGCCTACAGCTGATGAGCTGCACCTTTTGGACGAAGCATTTACGACAGAGAG
CGTACCAGATGAGGAAGGACGGCAGTCCCCAGCCATGCGGCCCTCGCTCCCGGAGCCTCAGTCCCGGACGATCCCC
AGTATCCTTTGACAGTGAAATAATAATGATGAATCATGTTTACAAAGAAAGATTCCCAAAGGCCACCGCACAAAT
GGAAGAGCGACTAGCAGAGTTTATTTCTCCAACACTCCAGACAGCGTGCTGCCCTTGGCAGATGGAGCCCTGAG
CTTTATTCTATCATCAGGTGATTGAGATGGCCCGAGACTGCCTGGATAAACTCTCGGAGTGGCCTCATTACATCACA
ATACTTCTACGAACTTCAAGATAATTTGGAGAACTTTTACAAGATGCTCATGAGCGCTCAGAGAGCTCAGAAGT
GGCTTTTGTGATGCAGCTGGTGAAAAAGCTGATGATTATCATTTGCCCGCCAGCACGTCTCCTGGAATGCCTGGA
GTTTGACCTGAAGAGTTCTACCACCTTTTAGAAGCAGCTGAGGGCCACGCCAAAGAGGGACAAGGGATTAAATG
TGACATTCGCCGCTACATCGTTAGCCAGCTGGGCCCTCACCCGGGATCCCCCTAGAAGAAATGGCCAGTTGAGCAG
CTGTGACAGTCTCTGACACTCCAGAGACAGATGATTCTATTGAGGGCCATGGGGCATCTCTGCCATCTAAAAAGAC
ACCCTCTGAAGAGGACTTCGAGACCATTAAAGCTCATCAGCAATGGCGCCTATGGGGCTGTATTTCTGGTGCGGCA
CAAGTCCACCCGGCAGCGCTTTGCCATGAAGAAGATCAACAAGCAGAACCTGATCCTACGGAACCAGATCCAGCA
GGCCTTCGTGGAGCGTGACATACTGACTTTGCGTGAGAACCCCTTTGTGGTCAGCATGTTCTGCTCCTTTGATAC
CAAGCGCCACTTGTGCATGGTGATGGAGTACGTTGAAGGGGGAGACTGTGCCACTCTGCTGAAGAATATTGGGGC
CCTGCCTGTGGACATGGTGCGTCTATACTTTGCGGAACTGTGCTGGCCCTGGAGTACTTACACAACCTATGGCAT
CGTGCACCGTGACCTCAAGCCTGACAACCTCCTAATTACATCCATGGGGCACATCAAGCTCACGGACTTTGGACT
GTCCAAAATTGGCCTCATGAGTCTGACAACGAACTTGTATGAGGGTCATATTGAAAAGGATGCCCGGGAATTCCT
GGACAAGCAGGTATGCGGGACCCCGAGAATACATTGCGCCTGAGGTGATCCTGCGCCAGGGCTATGGGAAGCCAGT
GGACTGGTGGGCCATGGGCATTATCCTGTATGAGTTCCTGGTGGGCTGCGTCCCTTTTTTTGGAGATACTCCGGA
GGAGCTCTTTGGGCAGGTGATCAGTGATGAGATTGTGTGGCCTGAGGGTGATGAGGCACTGCCCCAGACGCCCA
GGACCTCACCTCCAACTGCTCCACCAGAACCCTCTGGAGAGACTTGGCACAGGCAGTGCTATGAGGTGAAGCA
GCACCCATTCTTTACTGGTCTGGACTGGACAGGACTTCTCCGCCAGAAGGCTGAATTTATTCCTCAGTTGGAGTC
AGAGGATGATACTAGCTATTTTGACACCCGCTCAGAGCGATACCACCACATGGACTCGGAGGATGAGGAAGAAGT
GAGTGAGGATGGCTGCCTTGAGATCCGCCAGTTCTCTTCTGCTCTCCAAGTTCAACAAGGTGTACAGCAGCAT
GGAGCGGCTCTCACTGCTCGAGGAGCGCCGGACACCACCCCGACCAAGCGCAGCCTGAGTGAGGAGAAGGAGGA
CCATTGAGATGGCCTGGCAGGGCTCAAAGGCCGAGACCGGAGCTGGGTGATTGGCTCCCTGAGATATTACGGAA
GCGGCTGTGCGGTGTCTGAGTCATCCACACAGAGAGTGACTCAAGCCCTCCAATGACAGTGCGACGCCGCTGCTC
AGGCCTCCTGGATGCGCCTCGGTTCCCGGAGGGCCCTGAGGAGGCCAGCAGCACCCCTCAGGAGGCAACCACAGGA
GGGTATATGGGTCTTGACACCCCATCTGGAGAGGGGTATCTGGGCCTGTCACTGAACACTCAGGGGAGCAGCG
GCCAAAGCTGGATGAGGAAGCTGTTGGCCGGAGCAGTGTTCCAGTCCAGCTATGGAGACCCGAGGCCGTGGGAC
CTCACAGCTGGCTGAGGGAGCCACAGCCAAGGCCATCAGTGACCTGGCTGTGCGTAGGGCCCCGCCACCGGCTGCT
CTCTGGGGACTCAACAGAGAAGCGCACTGCTCGCCCTGTCAACAAAGTGATCAAGTCCGCCTCAGCCACAGCCCT
CTCACTCCTCATTCTTCCGAACACCACACCTGCTCCCCGTTGGCCAGCCCCATGTCCCCACATTCTCAGTCGTC
CAACCCATCATCCCGGGACTCTTCTCCAAGCAGGGACTTCTTGCCAGCCCTTGGCAGCATGAGGCCCTCCCATCAT

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FIGURE 213B

CATCCACCGAGCTGGCAAGAAGTATGGCTTCACCCTGCGGGCCATTGCGGTCTACATGGGTGACTCCGATGTCTA
CACCGTGACCATATGGTGTGGCACGTGGAGGATGGAGGTCCGGCCAGTGAGGCAGGGCTTCGTCAAGGTGACCT
CATCACCCATGTCAATGGGGAACCTGTGCATGGCCTGGTGACACGAGGTGGTAGAGCTGATCCTGAAGAGTGG
AAACAAGGTGGCCATTTCAACAACCTCCCCTGGAGAACACATCCATTAAAGTGGGGCCAGCTCGGAAGGGCAGCTA
CAAGGCCAAGATGGCCCGAAGGAGCAAGAGGAGCCGCGGCAAGGATGGGCAAGAAAGCAGAAAAAGGAGCTCCCT
GTTCCGCAAGATCACCAAGCAAGCATCCCTGCTCCACACCAGCCGAGCCTTTCTTCCCTTAACCGCTCCTTGTC
ATCAGGGGAGAGTGGGCCAGGCTCTCCACACACAGCCACAGCCTTTCCCCCGATCTCCCACTCAAGGCTACCG
GGTGACCCCCGATGCTGTGCATTAGTGGGAGGGAATTCATCACAGAGCAGCTCCCCAGCTCCAGCGTGCCAG
TTCCCCAGCCGGCTCTGGGCACACACGGCCAGCTCCCTCCACGGTCTGGCACCCAAGCTCCAACGCCAGTACCG
CTCTCCACGGCGCAAGTCAGCAGGCAGCATCCCACTGTCACTGGCCACACCCCTTCTCCCCACCCCAAC
AGCTTCACCTCAGCGGTCCCCATCGCCCTGTCTGGCCATGTAGCCAGGCCTTTCCCAAAAGCTTCACTTGTC
ACCTCCCCTGCGCAGGCAACTCTACGGCCCAAGAGTGGGAGCCACCCCGTTCACTACTCAAGAGGGTGCA
GTGGCTGAGAACTGGCAGCAGCACTTGCCGCCCTTGAGAAGAAGCTAGCCACTTCTCGAAGCACAGCCTTGA
CCTGCCCACTCTGAATAAAGAAGGAAGTGGCCCGCAGGGAAGTGAGCCCTCTGGAGGTAGTTGGAGCCAGGAG
TGTGCTGTCTGGCAAGGGGGCCCTGCCAGGGAAGGGGGTGCTGCAGCCTGCTCCCTCACGGGGCCCTAGGCACCT
CCGGCAGGACCGAGCCGAACGACGGGAGTCGCTGCAGAAGCAAGAAGCCATTCTGTAGGTGGACTCCTCAGAGGA
CGACACCGAGGAAGGGCCTGAGAACAGCCAGGGTGACAGGAGCTGAGCTTGGCACCTCACCCAGAAGTGAGCCA
GAGTGTGGCCCTAAAGGAGCAGGAGAGAGTGGGGAAGAGGATCCTTTCCCGTCCAGAGACCCTAGGAGCCTGGG
CCCAATGGTCCCAAGCCTATTGACAGGGATCACACTGGGGCCTCCAGAATGGAAAGTCCCAGTGGTCCCCACAG
GAGGCTCGGGAGCCACAAGCCATTGAGGAGGCTGCCAGCTCCTCCTCAGCAGGCCCCAACCTAGGTAGTCTGG
AGCCACAGACCCCATCCCTCCTGAAGGTTGCTGGAAGGCCAGCACCTCCACACCCAGGCACTAACAGCACTTTC
TCCCAGCACTTCGGGACTCACCCCCACCAGCAGTGTCTCTCTCCAGCTCCACCTCTGGGAAGCTGAGCATGTG
GTCCTGGAAATCCCTTATTGAGGGCCAGACAGGGCATCCCCAAGCAGAAAGGCAACCATGGCAGGTGGGCTAGC
CAACCTCCAGGATTTGGAAAACACAACCTCCAGCCAGCCTAAGAACCTGTCTCCAGGGAGCAGGGGAAGACACA
GCCACCTAGTGCCCCCAGACTGGCCCCATCCATCTTATGAGGATCCCAGCCAGGGCTGGCTATGGGAGTCTGAGTG
TGCACAAGCAGTGAAAGAGGATCCAGCCCTGAGCATCACCAAGTGCCTGATGCCTCAGGTGACAGAAGGCAGGA
CGTTCCATGCCGAGGCTGCCCCCTCACCCAGAAGTCTGAGCCAGCCTCAGGAGGGGCCAAGAACCAGGGGGCCA
TCAAAAGCATCGGGATTTGGCATTGGTTCCAGATGAGCTTTTAAAGCAAACATAGCAGTTGTTTGCCATTTCTTG
CACTCAGACCTGTGTAATATATGCTCCTGGAAACC

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FIGURE 214

GCAAGATGGTGGGTGAAAAAGTTGAGAAGCCAGATGCTAAAGAGAAGAAACCCAAAGCCAAGAAGGCTGATGTTG
GTGGCAAGGTGAAAAAGGGTAACCTCAAGGCTAAAAAGCCCAAGAAGGGGAAAGCCCCATTGCAGCCGCAACCCTG
TCCTTGTCAGAGGAATTGGCAGGTATTGCCGATCTGCCATGTATTCCAGAAAGGCCATGTACAAGAGGAAGTACT
CAGCCGCTAAATCTAAGGTTGAAAAGAAAAAGAAGGAGAAGGTTCTTGCAACTGTTACAAAACCAGTTGGTTGTG
ACAAGAATGGCGGTGCCCCGGGTGGTTAAACTTCGCAAAATGCCTAGATATTATCCTACTGAAGATGTGCCTCGAA
AGCTGTTGAGCCATGGCAAAAAATCCTTCAGTCAGCACGTGAGGCCATAGGGGCAAGAAGGTGGTTTTCTGAAG
CAGCTGGCTAGTGGTTTGTACTTGTGACTGGACCTCTGGTCCTCAATCGAATTCCTCTACGAAGAACATACCAG
AAATTTGTCATTGCCAC

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FIGURE 215

MVGEKVEKPDAKEKKPKAKKADVGGKVKKGNLKAKKPKKGKPHCSRNPVLVRGIGRYCRSAMYSRKAMYKRKYSA
AKSKVEKKKKEKVLATVTKPVGCDKNNGGARVVKLRLKMPRYYPTEDEVPRKLLSHGKKSFSQHVRP

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FIGURE 216

AATCTGCCATTTTCTGTCCCTGAGTGAGTCTCTGGCGTCCCAAATTGCCTGTTTTTCTCGCAGGCTCTATTCCGT
TCGTGGTTTCGCCACCTCAGGGGAACGATGGCCATGGAGTCCACAGCCACTGCCGCCGTGCGCCGGAGCTGGTT
TCTGCCGACAAAATTGAAGATGTTCTCTGCTCCTTCTACATCTGCAGATAAAGTGGAGAGTCTGGATGTGGATAGT
GAAGCTAAGAACTATTGGGTTTAGGACAGAAACATCTGGTGTATGGGGGATATTCCAGCAGCTGTCAATGCATTC
CAGGAAGCAGCTAGTCTTTTAGGTAAGAAGTATGGAGAGACAGCTAATGAGTGTGGAGAAGCCTTCTTTTCTAT
GGGAAATCACTTCTGGAGTTGGCAAGAATGGAGAATGGTGTGTTGGGAAACGCCCTTGAAGGTGTGCATGTGGAA
GAGGAAGAAGGAGAAAAACAGAAGATGAATCTCTGGTAGAAAAATAATGATAACATAGATGAGGAAGCAAGGGAA
GAGTTGAGAGAACAGGTTTATGACGCCATGGGAGAAAAAGAAGCCAAAAAACAGAAGACAAGTCTTTGGCA
AAGCCTGAAACTGATAAAGAACAGGACAGTGAAATGGAGAAGGGTGAAGAGAAGATATGGATATAAGTAAATCT
GCAGAGGAGCCACAGGAAAAAGTTGACTTGACTCTAGATTGGTTAACTGAAACCTCTGAAGAGGCAAAAGGAGGA
GCAGCACCAGAAGGACCGAATGAAGCTGAGGTCACTTCTGGGAAGCCAGAACAGGAAGTACCAGATGCTGAGGAA
GAAAAATCAGTTTCTGGAACTGATGTCCAAGAAGAGTGCAGAGAAAAAGGAGGTGAGGAGAAGCAGGGAGAGGTA
ATTGTGAGCATAGAGGAGAAGCCAAAAGAAGTTTCAAGAAGCAGCCTGTGGTGACTCTAGAAAAGCAGGGCACT
GCAGTGGAGGTAGAAGCAGAGTCTTTAGACCCGACAGTCAAGCCAGTGGATGTGGGTGGGGACGAGCCAGAGGAG
AAGGTAGTTACCTCTGAAAACGAGGCAGGAAAGGCGGTTCTTGAACTACTGGTAGGTCAAGAAGTACCACCTGCT
GAAGAGTCAACAGAGGTGACAACAGAGGCTGCAGAGGCCTCAGCTGTAGAGGCTGGATCAGAAGTCTCTGAAAAG
CCTGGGCAGGAGGCTCCAGTTCTCCCTAAGGATGGTGCAGTCAATGGACCGTCAGTTGTAGGAGATCAGACTCCT
ATTGAACCACAGACTTCTATAGAAAGACTGACAGAAACAAAAGATGGCTCAGGACTAGAGGAGAAGGTGAGGGCA
AAGGTGGTTTCTAGTCAGGAGGAGACTAAGCTGTCTGTAGAAGAGTCTGAGGCAGCTGGAGATGGGGTTGATACC
AAGGTAGCCCAGGGAGCTACTGAGAAATCACCTGAAGACAAAGTTCAGATAGCTGCTAATGAAGAGACACAAGAG
AGAGAAGACAGATGAAAGAGGGTGAAGAACTGAAGGCTCAGAAGAGGATGATAAAGAAAATGATAAGACCGAA
GAAATGCCAAATGATTGATCCTTGAAACAAGTCTCTTCAAGAAAATGAGGAGGAGGAGATTGGGAACCTAGAG
CTTGCCCTGGGATATGCTGGATTAGCAAAGATCATTTTAAAGGCAAGAAACAAAAGAAGCAGCTTTATAGCT
GCCCAGGCACATCTTAAACTCGGAGAAGTTAGTGTGTTAACTGAAAACATATGTGCAAGCTGTGGAGGAGTTCCAG
TCCTGCCTTAACCTGCAGGAACAGTACCTGGAAGCCACGACCGTCTCCTTGCAGAGACCCACTACCAGCTGGGC
TTGGCTTATGGGTACAACCTCTCAGTATGATGAGGCAGTGGCACAGTTTCAGCAAATCTATTGAAGTCATTGAGAAC
AGAATGGCTGTACTAAACGAGCAGGTGAAGGAGGCTGAAGGATCGTCTGCTGAATACAAGAAAGAAATTGAGGAA
CTAAAGGAAGTCTACCCGAAATTAGAGAGAAGATAGAAGATGCAAAGGAGTCTCAGCGTAGTGGGAATGTAGCT
GAACTGGCTCTGAAAGTACTCTGGTGGAGAGTTCTACTTCAGGTTTCACTCCTGGTGGAGGAGGCTCTTCAGTC
TCCATGATTGCCAGTAGAAAGCCAACAGACGGTGCTTCCTCATCAAATTGTGTGACTGATATTTCCACCTTGTC
AGAAAGAAGAGGAAACCAGAGGAAGAGAGTCCCCGGAAGATGATGCAAAGAAAGCCAAACAAGACCCGGAGGTG
AACGGAGGCAGTGGGGATGCTGTCCCCAGTGGAAATGAAGTTTCGGAAAACATGGAGGAGGAGGCTGAGAATCAG
GCTGAAAGCCGGGCAGCAGTGGAGGGGACAGTGGAGGCTGGAGCTACAGTTGAAAGCACTGCATGTTAAGAGGGG
GCACAGCCCTCTCCCAAGGGAAAGTGTGTTTTGTATATAATGTATTTTTTCACTTTTGGAGGATTCTTTTTGTAT
AACTTCAATAAAGATTGTAAGCAAAGGTTGAGGCTTTGATGGTTTTTTTCTTAATTATTGGCTGAATCTGCCTTG
GAGCACTGCTGGTTTTATATATTAGCCAAAGGTTTTGTTCTGGCCTTCTGTACTGATCTGTGTTCTGTATCCTAA
TTCCTATCTGTCTAACGTGGAGGTGATCAAGTGTGGCTGTAGGCCTTTGTTTTCCAATGGTGCTATATTCTGTTT
TCAAACACTTCACTGAACCCAGCTGTCTTGCAAACCTTTCAGTGGTGTGTCCCTGGATGGGGGTACAAAAACAA
GAATTGGTGAAGATCTTGCTCTTCAGTGTGAAAATGGATGATGGACTTTGGCTGTGAGCCAGGCCTAGGATGGT
TCTTGCTCTATATCCACCTAGTCTTCACCTGGGGCTATAATTCTGTCTGGAAGAAAGAACTCTGAAAACCTGGGT
CAGGGGAATGATTCTAAGGAAAACGGTCTGCATTTGAGCTCTGGTTTGAAAGTAGCCAAGGGGACTGATGGTGG
ACACTCCAGATGTGGTTGGAAGCATATGTGGGGAGGCTGGCTGGTTGAGTTTTGTTATTTCTGTATAGAAAGGT
TGAGATATATCAACACTTGAATTGTTACCCATCTGCAGAATTGACTTCTCAAATAAAGATGCTAAAAATCT

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FIGURE 217

MAMESTATAA VAAELVSADKIEDVPAPSTSADKVESLDVDSEAKLLGLGQKHLVMDIPAAVNAFQEAASLLGK
KYGETANECGEAFFFYGKSLLLELARMENGVLGNALEGVHVEEEEGEKTEDESIVENNDNIDEEAREELREQVYDA
MGEKEEA KKTEDKSLAKPETDKEQDSEMEKGGREDMDISKSAEEPQEKVDLTLDWLTETSEEAKGGAPEGPNEA
EVTSGKPEQEVPD AEEKSVSGTDVQEECREKGGQEQGEVIVSIEEKPKEVSEEQPVVTLEKQGTAVEVEAESL
DPTVKPVDVGGDEPEEKVVTSENEAGKAVLEQLVGQEVPPAEESPEVTTEAAEASAVEAGSEVSEKPGQEAPVLP
KDGAVNGPSVVG DQTP IEPQTSIERLTETKDGSGLEEKVRAKLVPSQEETKLSVEESEAAGDGVDTKVAQGATEK
SPEDKVQIAANEETQEREEQMKEGEETEGSEEDDKENDKTEEMPND SVLENKSLQENEEEEIGNLELAWDMLDLA
KIIFKRQETKEAQLYAAQ AHLKLGEVSVSENYVQAVEEFQSCNLQEQYLEAHDRLAETHYQLGLAYGYNSQY
DEAVAQFSKSIEVIENRMAVLNEQVKEAGSSAEYKKEIEELKELLPEIREKIEDAKESQSRSGNVAELALKATLV
ESSTSGFTPGGGGSSVSMIASRKPTDGASSSNCVTDISHLVRKKRKPEEESPRKDDAKKAKQEPEVNGGSGDAVP
SGNEVSENMEEEAENQAESRAAVEGTVEAGATVESTAC

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FIGURE 218

AGCCAGAAATGTGAAGTGCTAGCTGAAGGATGAGCAGCAGCTAGCCAGGCAAAGGGGGCAATGCGGCTTCCTGT
GTTCTACTGCACACTGGGCAGAAGATGCCTCTGATTGGTCTGGGTACCTGGAAGAGTGAGCCTGGTCAGGTAAAA
GCAGCTGTAAAGTATGCCCTTAGCGTAGGCTACCGCCACATTGATTGTGCTGCTATCTACGGCAATGAGCCTGAG
ATTGGGGAGGGCCCTGAAGGAGGACGTGGGACCAGGCAAGGCGGTGCCTCGGGAGGAGCTGTTTGTGACATCCAAG
CTGTGGAACACCAAGCACCACCCGAGGATGTGGAGCCTGCCCTCCGGAAGACTCTGGCTGACCTCCAGCTGGAG
TATCTGGACCTGTACCTGATGCACTGGCCTTATGCCTTTGAGCGGGGAGACAACCCCTTCCCAAGAATGCTGAT
GGGACTATATGCTACGACTCCACCCACTACAAGGAGACTTGGAAGGCTCTGGAGGCACTGGTGGCTAAGGGGCTG
GTGCAGGCGCTGGGCTGTCCAACCTCAACAGTCGGCAGATTGATGACATACTCAGTGTGGCCTCCGTGCGTCCA
GCTGTCTTGCAAGGTGGAATGCCACCCATACTTGGCTCAAAATGAGCTAATTGCCACTGCCAAGCACGTGGCTTG
GAGGTAAGTACTGCTTATAGCCCTTTGGGCTCCTCTGATCGTGCATGGCGTGATCCTGATGAGCCTGTCTGCTGGAG
GAACCAAGTAGTCCTGGCATTGGCTGAAAAGTATGGCCGATCTCCAGCTCAGATCTGCTCAGGTGGCAGGTCCAG
CGGAAAGTGATCTGCATCCCCAAAAGTATCACTCCTTCTCGAATCCTTCAGAACATCAAGGTGTTTGACTTCACC
TTTAGCCCAGAAGAGATGAAGCAGCTAAATGCCCTGAACAAAAATTGGAGATATATTGTGCCTATGCTTACGGTG
GATGGGAAGAGAGTCCCAAGGGATGCAGGGCATCCTCTGTACCCCTTTAATGACCCGTACTGAGACCACAGCTTC
TTGGCCTCCCTTCCAGCTCTGCAGCTAATGAGGTCTGCCACAACGGAAGAGGGAGTTAATAAAGCCATTGGAG
CATCCAT

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FIGURE 219

MAASCVLLHTGQKMPLIGLGTWKSEPGQVKA AVKYALSVGYRHIDCAA IYGNEPEIGEALKEDVGPGKAVPREEL
FVTSKLWNTKHHPEDVEPALRKTLADLQLEYLDLYLMHWPYA FERGDNPFPKNADGTICYDSTHYKETWKALEAL
VAKGLVQALGLSNFNSRQIDDILSVASVRPAVLQVECHPYLAQNELIAHCQARGLEVTAYSPLGSSDRAWDPDE
PVLLEEPVVLALAEKYGRSPAQILLRWQVQRKVICIPKSITPSRILQNIKVFDFTF SPEEMKQLNALNKNWRYIV
PMLTVDGKRVP RDAGHPLYPFNDPY

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FIGURE 220

GTTCTTGCCCTGGTGTCTGGTGGTTAGTTTCTGCGACTTGTGTGGGACTGCTGATAGGAAGATGCTTCAGGAAAT
GCTAAAATTGGGCACCCTGCCCCAACTTCAAAGCCACAGCTGTTATGCCAGATGGTCAGTTTAAAGATATCAGC
CTGTCTGACTACAAAGGAAAAATATGTTGTGTTCTTCTTTTACCCTCTTGACTTCACCTTTGTGTGCCCCACGGAG
ATCATTGCTTTAGTGATAGGGCAGAAGAATTTAAGAACTCAACTGCCAAGTGATTGGTGCTTCTGTGGATTCT
CACTTCTGTCTATCTAGCATGGGTCAATACACCTAAGAAACAAGGAGGACTGGGACCCATGAACATTCCTTTGGTA
TCAGACCCGAAGCGCACCATTGCTCAGGATTATGGGGTCTTAAAGGCTGATGAAGGCATCTCGTTCAGGGGCCTT
TTTATCATTGATGATAAGGGTATTCTTCGGCAGATCACTGTAAATGACCTCCCTGTTGGCCGCTCTGTGGATGAG
ACTTTGAGACTAGTTCAGGCCTTCCAGTTCACGTGACAAACATGGGGGAAGTGTGCCAGCTGGCTGGAAACCTGGC
AGTGATAACCATCAAGCCTGATGTCCAAAAGAGCAAAGAATATTTCTCCAAGCAGAAGTGAGCGCTGGGCTGTTTT
AGTGCCAGGCTGCGGTGGGCAGCCATGAGAACAAAACCTCTTCTGTATTTTTTTTTTCCATTAGTAAACACAAG
ACTTCAGATTGAGCCGAATTGTGGTGTCTTACAAGGCAGGCCTTTCCTACAGGGGGTGGAGAGACCAGCCTTCT
TCCTTTGGTAGGAATGGCCTGAGTTGGCGTTGTGGGCAGGCTACTGGTTTGTATGATGTATTAGTAGAGCAACCC
ATTAATCTTTGTAGTTTGTATTAACTTGAAGTGAAG

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FIGURE 221

MSSGNAKIGH PAPNFKATAVMPDGQFKDISLS DYKGKYV VFFYP LDFTFVCPT EIIAFSDRAEEFKKLNCQVIG
ASVDSHFCHLAWVNTPKKQGGLGPMNIPLVSDPKRTIAQDYGV LKADEGISFRGLFIIDDKGILRQITVNDLPVG
RSVDETLRLVQAFQFTDKHGEVCPAGWKPGSDTIKPDVQKSKEYFSKQK

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FIGURE 222

GCTCGGCTCACTGAGACCCGGTGGTCCAGACGCTGCTCCTGGCTGGGGTGGCGCTGCAGGGAGAACC GCGAGCTC
TCAGGGGTCCGGCGGGTGA CTTCCTTCCGGAAGAAAGCGAGGAACGCGCTCTGCGGGGTGAGCCGGACTCCCCAAC
TCCGGACGATCAGCCCAGGACTGAGAGCCCCGAAGTCCCCAACCAAGTAAGCGGCCCCAGAAGGACAAGTCTA
GGTCGCCGTCCAGAGCGCCATGSCCGCGCCCGCCCTTCGTTTGTGCCACATCGCCTTCCACGTGCCCGCCGGGCA
GCCCCTAGCCCGGAACCTGCAGCGCCTCTTCGGCTTCCAGCCCCCTGGCTTCGCGGGAGGTGGACGGCTGGCGGCA
GCTAGCCCTGCGCAGCGGCGACGCGGTCTTTTTGGTGAACGAGGGCGCAGGGTCTGGAGAGCCGCTGTACGGCCT
GGATCCGCGTCACGCCGTGCCAGCGCCACAACTGTGCTTCGACGTGGCGGACGCGCGCTGCAACCCGGGA
GCTGGCAGCGCTGGGCTGCAGCGTGCCTGTCCCTCCCGTTTCGCGTGCGGGACGCGCAGGGTGCCGCCACTTACGC
CGTGGTCAGCTCGCCTGCCGGCATCCTCAGCCTGACCTTGCTGGAGCGCGCTGGCTACCGCGGACCCTTCCTACC
CGGCTTCAGGCCCCGTGTCTCTGCGCCTGGCCCCGGGTGGGTGAGCCGCTGGACCACCTGACCTTGGCCTGCAC
CCCCGGCAGCTCCCCACACTTTTGGCTGGTTCCACGACTGCCTGGGCTTTTGCCACTTGCCGCTGAGCCCAGG
TGAGGATCCCAGCTGGGCCTCGAAATGACAGCAGGGTTTGGGCTTGGGGGACTGAGGCTTACAGCCCTGCAGGC
CCAGCCGGGCAGCATTGTCCCCACTCTGTCTGCTGAGTCCCTTCCGGGGGCGACGACACGACAGGACCAGGT
GGAGCAGTTCTTGCCCCGGCACAAGGGGCCAGGCCTGCAGCACGTGGGGCTGTATACGCCTAACATTGTGGAGGC
CACTGAGGGGGTGGCAACTGCTGGAGGCCAGTTCTTGCTTCCCCCTGGGGCATACTACCAGCAGCCAGGAAAGGA
GAGGCAGATCCGAGCTGCAGGGCACGAGCCTCATCTGCTGCTCGACAGGGGATCCTGCTAGATGGTGATAAAGG
CAAGTTTCTGCTTCAGGTCTTCACCAAGTCCCTTTTTACTGAGGACACTTTCTTCTTGAGCTGATTAGAGGCA
GGGGGCCACTGGCTTTGGTCAGGGCAACATCAGAGCTCTGTGGCAGTCCGTACAGGAGCAATCTGCCAGGAGCCA
GGAAGCCTAAGGATGCCAGGGCTGGGTGCAGCCAGCTGTCTGCTGAGCTCTGGGGAGACCAGCACAGAACTGAGG
AACATCTGCAGGAGGCCCAACTAGTGAAAGGCTTTGCCTCCGGGGGCGAGGTGTGACTTCCATTTTCATCAGTGCC
TGCCAGAAGCTGTGTCTCTCATTGGGCTCCAAAGAGGTGGGATTTTTTAAACTAAACATTTCTTATATACAGT
CTATAATAAATATGTAAGATACAAAGAACATAAAAGAATTACACACTAGGAAAAAAAAAAAAAAAAAAAAA

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FIGURE 223

MAAPALRLCHIAFHVPAGQPLARNLQRLFGFQPLASREVDGWRQLALRSGDAVFLVNEGAGSGEPLYGLDPRHAV
PSATNLCFDVADAGAATRELAALGCSVPVPPVRVRDAQGAATYAVVSSPAGILSLTLLERAGYRGPFPLPGFRPVS
SAPGPGWVSRVDHLTLACTPGSSPTLLRWFHDCLGFCHLPLSPGEDPELGLEMTAGFGLGGLRLTALQAQPGSIV
PTLVLAESLPGATTRQDQVEQFLARHKGPGLQHVGLYTPNIVEATEGVATAGGQFLAPPGAYYQQPGKERQIRAA
GHEPHLLARQGILLDGDGKGKFLQVFTKSLFTEDTFFLELIQRQGATGFGQGNIRALWQSVQEQSARSQEA

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FIGURE 224

GACCACGATGAGTGTGCCGCACTTCCGGCCAGATCGCCGGATTTCCGCTGAGTGACCCTTACAAGTCCTTCTTGA
TCCTGAACTGGGTTAGGTGCCGCTGTTGCTGCTCGTGTGAATCTAGAACCGTAGCCAGACATGGGACTGGAGGA
CGAGCAAAGATGCTTACCGAATCCGAGATCCTGAGGAGGAGGAAGAGGAAGAGGAGGAATTAGTGGATCCCCCT
AACAACAGTGAGAGAGCAATGCGAGCAGTTGGAGAAATGTGTAAAGGCCCGGGAGCGGCTAGAGCTCTGTGATGA
GCGTGTATCCTCTCGATCACATACAGAAGAGGATTGCACGGAGGAGCTCITTGACTTCTTGATGCGAGGGACCA
TTGCGTGGCCACAACTCTTTAACTTGAATTAATGTGTGGACTTAATTCACCCAGTCTTCATCATCTGG
GCATCAGAATATTCCTTATGGTTTTGGATGTACCATTGTTTCTTATTGTGTAACTGTAAGTTCACATGAACC
TCATGGGTTTGGCTTAGGCTGGTAGCTTCTATGTAATTGCAATGATTCCATCTAAATAAAAGTTCTATGATCTG
C

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FIGURE 225

MGLEDEQKMLTESGDPEEEEEEEELVDPLTTVREQCEQLEKCVKARERLELCDERVSSRSHTTEEDCTEELDFDL
HARDHCVAHKLFNNLK

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FIGURE 226

CGCGCCTGAGGAGGAGGAGGAGGCGGGGGCGGCCATGGCTGCTGTGGTGGTGGCGGCTGCGGGTGGCGCGGGACC
GGCGGTCTGTCAGGTGGCCGGTCTCTACCGGGGCTGTGCGCGGTGCGCAGCCGCGCCCTGGGCCTGGGGCTCGT
GTCACCCGCGCAGCTGCGCGTCTTCCCAGTGCGCCCCGGCTCGGGCCGGCCGAGGGGGCGCCGACAGCAGCGG
GGTCGGGGCCGAGGCCGAGCTCCAGGCCAACCCCTTTCTACGACCGCTACCGCGACAAGATCCAGCTGCTGCGCAG
GTCAGACCCAGCTGCTTTTGAGTCCCCTGGAGAAACGCAGTGAATTCGGAAGCAGCCAGTGGGGCATTCCAG
GCAAGGTGATTTTATCAAATGTGTGGAACAGAAGACAGATGCCTTGGGGAAACAGTCTGTGAACAGAGGATTAC
TAAGGACAAGACTCTCAGTTCAATCTTTAACATTGAGATGGTAAAAGAAAAAACTGCAGAAGAAATAAACAGAT
TTGGCAGCAATATTTTGCAGCAAAAGATACAGTCTACGCGATTATTCCTGCAGAAAAGTTTGATTTGATCTGGAA
CCGGGCTCAGTCCGTGTCACATTTCTATGTGCTCTGCCAAGAAGGGAAGGTTATGAGTTTTTGTAGGACAATG
GACAGGTACTGAACTCCACTTCACTGCACTTATAAATATTCAGACCCGAGGGGAAGCTGCAGCCAGCCAGCTGAT
TTTATATCACTATCCTGAACTTAAGGAAGAAAAGGGCATAGTGCTGATGACTGCAGAAATGGATTCCACATTTCT
GAATGTTGCTGAGGCACAGTGCATCGCCAACCAAGTTCAGCTCTTCTACGCTACTGATCGGAAAGAGACCTACGG
GTTAGTGGAGACCTTTAACCTCAGACCAATGAGTTCAAATATATGTCTGTCTCATCGCTGAATTGGAGCAAAGCGG
ACTTGAGCAGAACTGAAATGTGCCCAGAACCAAAATAAGACTTAGAACTGTACAGGTTGGCCCTTCACCTAGTT
GACTCAGCCCTCGATAGTCTAGAGCCACCCCTCCTCAGGAAGCTCAAGAGCTCAGCATTATAATGAGCAGTTG
GTAATGAGTTGCCCTATGTGCTTGTGCGCAAGCAGTCACAGAGATGAGCCCTATTACTTGATATTCAGGAACAAAG
GTACCTGAACATTCTGATAATTATCTCAGCATACTTGAGGTTTCCTTTTTTAAGTGTTTCGAGGTTATAACAAGAG
ACAGCCAAGGACCTACAAGACAGTTGACTTGATTTTGCACAGTGTAACAGCGCAGTTGCATTCTGGCCACTTTGA
CCTTATAGCTCCCAAATGATGAGTTTGTCTATTTATGAAGTATGACAGGATAATAAGCTTGAAGACCTGCTGT
AGTTAGATATGGGCTTTAATCCTTCCCAGGCACCCAGTCAGCTGAACAAAAGCATAAGCCAAACATCCTGTTTAA
CTGTAGAATAACCAGATATTTCCCATCAGGTTAAAGACTTCATCTAGATGATGCCCCCAGAGATGCCTTTAGTGT
AAGTAGCTGGCTTGGGGTATCAGCAAATTCAGGTATAGTTAGATAAACAGGTACAGGGCCTGCATACTATTAA
CCATAGTTTGTGGCACCCGCTTTTCTAACTCCACCTGTTAGAAGCTATGTGTTTGAAGGAATGAATCAGTGCAGT
ATAAATAAAATTTCTTTTGTAAAGGAG

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FIGURE 227

MAAVVVAAGGAGPAVLQVAGLYRGLCAVRSRALGLGLVSPAQLRVFPVRPGSGRPEGGADSSGVGAELQANP
FYDRYRDKIQLLRRSDPAAFESRLEKRSEFRKQPVGHSRQGDFIKCVEQKTDALGKQSVNRGFTKDKTLSSIFNI
EMVKEKTAEIQQIQQYFAAKDTVYAVIPAEKFDLIWNRAQSCPTFLCALPRREGYEFFVGQWTGTELHFTALI
NIQTRGEAAASQLILYHYPELKEEKGIVLMTAEMDSTFLNVAEAQCIANQVQLFYATDRKETGLVETFNLRPNE
FKYMSVIAELEQSGLGAEKCAQNQNKT

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FIGURE 228

ACCTGCCCTCATCTGCCCCGCGACTGTAAGACCGGACCCACATCCAGACCAATCTTCCTGTCCGGCTGCTGCGA
CGCGGTCCGCAGGTTGCAGGCGGGCGGCCGGGGCGCCTGAAGGTTACCGAGTGCATGACGGCCTCAGTTCCCGCG
CTGCCCCGCCCCGCTGGCCCCGCGACCTCCCCGCCGCTCGCCCCGCCAGCCCCCTCGGGCCCGGCGGCGGCGGGCG
GTGGCGGCGACGGTCGCAGGAGGTGCCGTCTGCCTCCCAGGTGCGCGCTTCGCTCCCGGAGCCGCGGAACCTCGGT
CGCGCCATGGCGTCCAACATGGACCGGGAGATGATCCTGGCGGATTTTCAGGCATGTACTGGCATTGAAAACATT
GACGAAGCTATTACATTGCTTGAACAAAATAATTGGGACTTAGTGGCAGCTATCAATGGTGTAAATACCACAGGAA
AATGGCATTCTACAAAGTGAATATGGAGGTGAGACCATAACCAGGACCTGCATTTAATCCAGCAAGTCATCCAGCT
TCAGCTCCTACTTCTCTCTTCTTCAGCGTTTCGACCTGTAATGCCATCCAGGCAGATTGTAGAAAAGGCAACCT
CGGATGCTGGACTTCAGGGTTGAATACAGAGACAGAAATGTTGATGTGGTACTTGAAGACACCTGTACTGTTGGA
GAGATTAAACAGATTCTAGAAAATGAACTTCAGATACCTGTGTCCAAAATGCTGTTAAAAGGCTGGAAGACGGGA
GATGTGGAAGACAGTACGGTCTTAAATCTCTACACTTGCCAAAAACAACAGTCTTTATGTCCTTACACCAGAT
TTGCCACCACCTTCATCATCTAGTCATGCTGGTGCCTGCAGGAGTCATTAAATCAAACTTCATGCTGATCATC
ACCCACCGAGAAGTCCAGCGGGAGTACAACCTGAACTTCTCAGGAAGCAGTACTATTCAAGAGGTAAAGAGAAAT
GTGTATGACCTTACAAGTATCCCGTTTCGCCACCAATTATGGGAGGGCTGGCCAACTTCTGCTACAGACGACTCA
ATGTGTCTTGTGAATCAGGGCTCTCTTATCCCTGCCATCGACTTACAGTGGGAAGAAGATCTTCACCTGCACAG
ACCCGGGAACAGTCCGAAGAACAATCACCAGTGTTCATATGGTTAGTGATAGCGATGGAGATGACTTTGAAGAT
GCTACAGAATTTGGGGTGGATGATGGAGAAGTATTTGGCATGGCGTCATCTGCCTTGAGAAAATCTCCAATGATG
CCAGAAAACGCAGAAAATGAAGGAGATGCCTTATTACAATTTACAGCAGAGTTTCTTCAAGATATGGTGATTGC
CATCTGTATTTTTTATTGGCTCATTAGAAGCTGCTTTTCAAGAGGCCTTCTATGTGAAAGCCCGAGATAGAAAG
CTTCTTGCTATCTACCTCCACCATGATGAAAGTGTGTTAACCAACGTGTTCTGCTCACAAATGCTTTGTGCTGAA
TCCATTGTTTCTTATCTGAGTCAAAATTTTATAACCTGGGCTTGGGATCTGACAAAGGACTCCAACAGAGCAAGA
TTTCTCACTATGTGCAATAGACACTTTGGCAGTGTGTGGCACAACCATTCGGACTCAAAAAACGGATCAGTTT
CCGCTTTTCCTGATTATTATGGGAAAGCGATCATCTAATGAAGTGTGAATGTGATACAAGGGAACACAACAGTA
GATGAGTTAATGATGAGACTCATGGCTGCAATGGAGATCTTCACAGCCCAACAACAGGAAGATATAAAGGACGAG
GATGAACGTGAAGCCAGAGAAAATGTGAAGAGAGAGCAAGATGAGGCCTATCGCCTTTCACTTGAGGCTGACAGA
GCAAAGAGGGAAGCTCACGAGAGAGAGATGGCAGAACAGTTTCGTTTGGAGCAGATTGCGAAAGAACAAGAAGAG
GAACGTGAGGCCATCCGGCTGTCTTAGAGCAAGCCCTGCCTCCTGAGCCAAAGGAAGAAAATGCTGAGCCTGTG
AGCAAACTGCGGATCCGGACCCCCAGTGGCGAGTTCCTGGAGCGGCGTTTCCTGGCCAGCAACAAGCTCCAGATT
GTCTTTGATTTTGTAGCTTCCAAAGGATTTCCATGGGATGAGTACAAGTTACTGAGCACCTTTCCTAGGAGAGAC
GTAACCTCACTGGACCCAAATAAATCATTATTGGAGGTAAAGTTGTTCCCTCAAGAAACCCTTTTCCTTGAAGCA
AAAGAGTAAACACGGCCCAGCGGTGGAACCAGCCATTTCCTTGACAAGCCAGCAGCCTGCGTCAGGAGAAGGGCTC
CTCGCCAACCCACCCACACGCTCGTCTCACTCAATTCAATGTACACTTCTGCCTCTTGCAAAATTGCTGGAAAA
AGTAATAATAATATAGCTACTTAAAAA

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FIGURE 229

CTCTGCCGAGCCTCCTTAAACTCTGCCGTTAAATGGGGGCGGGTTTTTCAACTCAAAAAGCGCTCAATTTTTT
TCTTTTCAAAAAAGCTGATGAGGTCGGAAAAAGGGAGAAGAAACCGGCACCCTCTCTGAGAGGCAACAGAAGC
AGCAATTGTTTCAGCGAAAAAGCAGCAAGGGAGGGAGTGAAGGAAAAAGCAAAAAGGGGGCGACACGCAAGT
GCCTGTAGGGGTGAAAGGAGCAGGGACCGCGATCTAGGGGGGATCAGCTACAAAAGAACTGTCACTGGGAGC
GGTGGGCCAAGGAGGAAGCAGTGCTGCCAGGCTCTGCTCCAGGGCACAGCTGGCTGGCGGCTGCCCTGTCCGCA
GCAAAGGGGCACAGGCCGGGACCGCGAGAGGTGGCAAAGTGGCACCGGGCGCCGAGGCTGCTGAGCGCTCGCCG
AGACGGCGACCGGACTGGCTGCCCCGGAACGCGGCGACTCTCCCTACTCAGAACTTGGCCTACGTTTCCCAGGA
CTCTCCCCATCTCCAGAGGCCCCACAAAACCGGAAAGGAAGGAAAGGACAGCGCGGCGCAGCAGCTCAATGAGT
GCCTACAGCAGAAAGCCTGAACGAGCTCGGTCTAGGCGGGAAGTTCCCGGGGGGGCTGCCCAGTGACGCCGAA
TGCTGCCGCGAGCTGCCCCAGCAGTCCGGGCTCCGTAGACGCTTTCGCGATCACTCTCCTTCCTCGGGCTGCCG
GAGTCCCGGGACCTGGCGGGGCGGCGATGACGGGCTTCTCGGGGGCCCGCGCACGCCCGGCGAGCCTCCGGAGAC
GCGCGCCGAGCCCGGCTCCACGGCCTCTGAGGCTCGGCGGGGCTGCGGCTGCCTGGCGGGCGGGCTCCGGAGCT
TTCTGAGCGGCATTAGCCACGGCTTGGCCCGGACGCGACCAAAAGGCTCTTCTGGAGAAGCCCAGAGCACTGGG
CAATCGTTACGACCTGTAACCTGAGGGCCACCGAACTGCTACTCCCGTTCGCTTTGGCGATCATCTTTTAACCC
TCCGGAGCACGTCAGCATCCAGCCACCGCGGCGCTCTCCAGCAGCGGAGGACCCAGGACTATCCCTTCGGCGAG
ACGGATGGAAACCGAGCCCCCTGGAGGACCTGCCCTGCAGTTCGCTCAGACGGCTCAAGTCACCACCGTGAA
CAAGGGACCCTAAAGAAATGGCCGAGCCTTGGGGGAACGAGTTGGCGTCCGCGAGCTGCCAGGGGGGACCTAGAGCA
ACTTACTAGTTTGTGCAAAATAATGTAAACGTCAATGCACAAAATGGATTGGAAGGACTGCGCTGCAGGTTAT
GAAACTTGGAATCCCGAGATTGCCAGGAGACTGCTACTTAGAGGTGCTAATCCCGATTGAAAGACCGAACTGG
TTTCGCTGTCTATCATGATGCGGCCAGAGCAGGTTTCTGGACACTTTACAGACTTTGCTGGAGTTTCAAGCTGA
TGTTAACATCGAGGATAATGAAGGGAACCTGCCCTTGCACTTGGCTGCCAAAGAAGGCCACCTCCGGGTGGTGGA
GTTCTTGGTGAAGCACACGGCCAGCAATGTGGGGCATCGGAACCATAGGGGGACACCGCCTGTGATTGGCCAG
GCTCTATGGGAGGAATGAGGTTGTAGCCTGATGCAGGCAAACGGGGCTGGGGGAGCCACAAATCTTCAATAAAC
GTGGGGAGGGCTCCCCACGTTGCCCTCTACTTTATCAATTAAGTAGCTCTCCTGACTTTTAAATGTCATTG
TAAAATACAGTTCTGTCAATATGTTAAGCAGCTAAATTTTCTGAAACTGCATAAGTGAATCTTACAACAGGCT
TATGAATATATTTAAGCAACATCTTTTAACTGCAAAATCTGTTCTAACATGTAATTGCAGATAACTTTGACTT
TCTTCTGAATATTTTATCTTTTCTTGGCTTTTCCCTTGCTTCCCCTTTTGCCAATCTCAACACCCAAGTTGAAGA
CTTTGTTTTTAAATGGTTTGTCTGATGCTTTTGTCTAATTAACACTTTCAAAACAGGAAAAAAAAAAAAA
AAAA

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FIGURE 230

MAEPWGNELASAAARGDLEQLTSLLQNNVNVNAQNGFGRTALQVMKLGNPEIARRLLLRGANPDLKDRTGFAVIH
DAARAGFLDTLQTLLEFQADVNIEDNEGNLPLHLAAKEGHLRVVEFLVKHTASNVGHRNHKGDTACDLARLYGRN
EVSLSMQANGAGGATNLQ

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FIGURE 231

AAAACACCAAATGGTGGATGACACCAGTGCAGCGGGGGGGGGCCCGGAGGCCCTGGGATGGGGAAGTGCAGGTGGC
TTCCGCGGAGGTTTCGGCAGTGGCATCCGGGGCCGGGGTCGCAGCCGTAGACGGGGCCGGGGCCGAGGCCGCGGA
GCTCGCGGAGGCAAGGCCGAGGATAAGGAGTGGATGCCCGTCACCAAGCTGGGCTGCTTGGTGAAGGACATGAAG
ATCAAGTCCCTGGAGGAGATCTATCTCTTCTCCCTGCCCATTAAGGAATCAGAGATCATTGACTTTTCTGGGG
GCCTCTCTCAAGGATGAGGTTTTGAAGATTATGCCAGTGCAGACGCAGACCCGTGCTGGCCAGCGCACCAGGTTT
AAGGCGTTTGTGCTATCGGGGACTACAATGGCCACGTCGGTCTGGGTGTTAAGTGCTCCAAGGAGGTGGCCACC
GCCATCCATGGGGCCATCATCTGGCCAAGCTCTCCATTGTCCCGTGCAGAGGCTACTGGGGGAACAAGATT
GGCAAGCCCCACACCGTCCCTTGCAAGGTGACAGGCCGCTGCGGCTCTGCACTGGTGCACCTCATCCCTGTACCC
AGGGGCACTGGCATTGTCTCCGCACCTGTGCCCAAGAAGCTGCTCATGATGGCTGGTATCGATGACTGCTGCACC
TCAGCCTGGGGCTGCACTGCCACCCTGGGCAACTTCGCCAAGGCCACCTTTGATGCCATTTCTAAGACCTACAGC
TACCTGACCCCGACCTCTGGAAGGAGACTGTATTTACCAAGTCTCCCGATCAGGAATTCAGTACCCACCTCATC
AAGGCCACGCCAGAGTCTCCGTGCAGCGGACCCAGGCTCCAGCTGTGGCTACAACATAGGGTTTTAGACAAGG
AAAATAAAGCGAATTAAGCGT

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FIGURE 232

MGNCGGFRGGFGSGIRGRGRSRRRGRGRGRGARGGKAEDKEWMPVTKLGCLVKDMKIKSLEEIYLFSLPIKESEI
IDFFLGASLKDEVLKIMPVQTQTRAGQTRFKAFVAIGDYNHVGGLGVKCSKEVATAIHGAILAKLSIVPVRRG
YWGKIGKPHTVPCKVTGRCGSALVHLIPVPRGTGIVSAPVPPKLLMMAGIDDCCTSAWGCTATLGNFAKATFDA
ISKTYSYLTPDLWKETVFTKSPDQEFTDHLIKAHARVSVQRTQAPAVATT

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FIGURE 233

ATGTCTAAGTCAGAATCTCTTAAAGAGCCCGAACAGCTGCAGAACTCCTCACTGGAGGGTTGAGCATTGAAGCA
ACCAATGAGAGCCTGAGGAGCCATTTTGGCAATGGGGAACGCTCACGGACTGTGTGGTCCTGAGAGATCCAAAC
ACTAAGTGCTCCAGGGGCTTTGGGTTTGTACATATGCCACTGTGGAGGAGGTGGATGCAGCCACAAATGCAAGG
CCACACAAGGTGGATGGAAGAGTTGTGGAAACAAAGAGAGCTGTCTCAAGAGAAGATTCCCAAAGACCAGGTGCT
CACTTAACTGTGAAAAAGTTTGGAAAAATGGAAGTGATTGAAATCATGACTGACCATGGCAGTGGCAAGAAAAGG
GACTTTGCCTTTGTAACCTTTGATGACCATGACTCCGTGGATAAGACTGTCATTGAGAAATACCATATTGTGAAT
GGCCACAACGTGTAAGTTAGGAAAGCCCTGTCAAAGCAAGAGATGGCTAGTGCTTCATCCAGCCAAAGAGGTCGA
ACAGGCTCCTTGATGCCATAAGCCCAATGCTGGCATTGAGCCCTCCATGACAGGTTCCAGCTTTCCTGCAAG
GCCATGCTCCTCACGGCCTATGACTGCCTCCTGTTCTGCGCTGTCAGGTCTTCCACCTCACCCCTCTTCTCAGC
CTATCCAAGCCCATTGAGTCTTCAGGCGAGCTCTAG

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FIGURE 234

MSKSESLKEPEQLQKLLTGGLSIEATNESLRSHFEQWGTLTDCVVLRDPNTKCSRGFVFTYATVEEVDAATNAR
PHKVDGRVVETKRAVSREDSQRPGAHLTVKKFGKMEVIEIMTDHGSGKKRDFAFVTFDDHDSVDKTVIQKYHIVN
GHNCEVRKALSKQEMASASSQRGRTGSLMPKAQCLAFEPSMTGSQLSCKAMLLTAYDCLLFCACQVFHLTPLLS
LSKPIQSSGEL

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FIGURE 235

CGGTCCCGCACTGGTGCAGCCATGTCCTCTTCCCGTGGGAGCCTGCGACCCTGCGCCGGGTGTTTCGTGGTGGGG
GTTGGCATGACCAAGTTTGTGAAGCCTGGAGCTGAGAATTCAAGAGACTACCCTGACTTGGCAGAAGAAGCAGGC
AAGAAGGCTTTAGCTGATGCACAGATCCCTTATTACAGCTGGACCAGGCATGTGTTGGCTATGTTTTGGTGAC
TCTACCTGTGGGCAGAGGGCTATCTATCACAGTTTGGGAATGACTGGAATTCCTATAATCAATGTCAACAATAAC
TGTGCTACTGGTTCTACTGCTTTGTTTATGGCCCCCAGCTGATTACAGGGTGGTGTGGCAGAATGTGTCTTGGCT
CTTGGGTTTGAGAAGATGAGTAAGGGAAGCCTTGAATAAAATTTTTCAGATAGAACCATTCCCACTGATAAGCAT
GTTGACCTCCTGATCAATAAGTATGGATTGCTGCTCACCCAGTTGCTCCTCAGATGTTTGGGTATGCTGGAAAA
GAACATATGGAAAAATATGGAACAAAAATTGAACACTTTGCAAAAAATTGGATGGAAAAATCATAAACATTACAGTT
AATAACCCGTATTCCCACTTCCAAGATGAATACAGTTTAGATGAAGTGATGGCATCTAAAGAAGTTTTTGATTTT
TTGACTATCTTACAATGTTGTCCCACTTCAGATGGTGTGTCAGCAGCAATTTTGGCCAGTGAAGCATTGTACAG
AAGTATGGCCTGCAATCCAAAGCTGTGGAAATTTGGCACAAGAAATGATGACTGATTTGCCAAGCTCGTTTGAA
GAAAAAGCATTATTAAAAATGGTTGGCTTTGATATGAGTAAAGAGCTGCAAGAAAAATGCTATGAGAAATCTGGC
CTGACACCAAATGATATTGACGTAATAGAACTTCACGATTGCTTTTCTACCAACGAACTCCTGACTTATGAAGCA
CTCGGACTCTGTCCAGAAGGACAAGGTGCAACGCTGGTTGATAGAGGAGATAATACATATGGAGGAAAGTGGGTC
ATAATCCTAGTGGTGGACTGATTTCAAAGGGACACCCACTAGGCGCTACAGGTCTTGCTCAGTGTGCAGAACTC
TGCTGGCAGCTGAGAGGGGAAGCCGGAAGAGGCAAGTTTCCGGTGCAGAGGTGGCTCTGCAGCATAATTTAGGC
ATTGGAGGAGCTGTGGTTGTAACACTCTACAAGATGGGTTTTCCGGAAGCCGCCAGTTCTTTTAGAACTCATCAA
ATTGAAGCTGTTCCAACAGCTCTGCAAGTGATGGATTTAAGGCAAACTCTGTTTTTAAGGAGATTGAGAAGAAA
CTTGAAGAGGAAGGGGAACAGTTTGTGAAGAAAAATCGGTGGTATTTTGCCTTCAAGGTGAAAGATGGCCCTGGG
GGTAAAGAGGCCACCTGGGTGGTGGATGTGAAGAATGGCAAAGGATCAGTGCTTCCTAACTCAGATAAGAAGGCT
GACTGCACAATCACAATGGCTGACTCAGACTTCCTGGCTTTAATGACTGGTAAAATGAATCCTCAGTCGGCCTTC
TTTCAAGGCAAATTGAAAATCACTGGCAACATGGGTCTCGCTATGAAGTTACAAAATCTCAGCTTCAGCCAGGC
AACGCTAAGCTCTGAAGAAGTCCCTTTGGCTACTTTTGAAGTCAAGATGAGATATATAGATATATATCCATACA
TTTTATTGTGAGAAATTTAGACTGAACTACACATTGGCAAATAGCGTGGATAGGATTTGTTTCTTAATGGGTGTG
ACCAATCCTGTTTTTCTATGCTCTGGGTGAATAGAGCCTGATGGTATACTACTGCTTTGCGGAATTGCATACAA
CTGTGCATTACAAAGTTAATATGGTAATTATGGTCTGGGGTAAAATTGAGTTTCAGAAATAAAATTAGGAACAGTA
AAATCCAAAGAACTATGTAAACAAAAAGCTTTTGTGTTTGCTTACAAAGTATATTTAAGGATTATTCTGCTGAAG
ATTGAGTTTAAAGAGTTTCCCTTGGGAGAACTAAGTAAGAAACACAATGCCAACAGCTGGCCAGTAATTAGTGTTG
TGCATTTCATGTCATTAAATCAATTTCTCAATAGTTCTTAAATAGTGAGATTAAAAATCTAAAAATTTTGCATT
TCATGCTATCAGAAACAGTATTTTCTTCCCAATCAAATAAAAGAAATATGATCAGAGCTTGAACACAGGCTTA
TTTTTAAATAAAAAATATTTTAAACATGGGTTTCCTTATTGAAAAATCAGTGTATTAGTCATAAAACACCATCAT
TAAGAATAATTGAACAATAAAGTTTGCTTTTCAGATGCAGTTTTCAAATTATAATCTCATTTCAATTTATAACGTT
CTCAGTCCTTTGTTATAATTTTCTTTTTCATGTAAGTTTAATTATCTGCATTTATCTTTTTTCTAGTTTTTCT
AATACTAATGTATTTCTTAAATTCAGTGAGATATAGGATAAAATAATGCTTTGAGAAGATGTTTAAATAGAAA
ATTAAATAACTTTTTCTGGCA

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FIGURE 236

MSSSPWEPATLRRVFVVGVMKTFVKPGAENSRDYPDLAEAGKKALADAQIPYSAVDQACVGYVFGDSTCGQRA
IYHSLGMTGIPIIINVNNNCATGSTALFMAQQLIQGGVAECVLALGFEEKMSKSLGIKFSDRTIPTDKHVDLLINK
YGLSAHPVAPQMFGYAGKEHMEKYGTKIEHFAKIGWKNHKHSVNNPYSQFQDEYSLDEVMAKSEVDFLTILQCC
PTSDGAAAAILASEAFVQKYGLQSKAVEILAQEMMTDLPSSFEEKSIIKMVGFDMSKEAARKCYEKSGLTPNDID
VIELHDCFSTNELLYEALGLCPEGQGATLVDRGDNTYGGKWVINPSGGLISKGHPLGATGLAQCAELCWQLRGE
AGKRQVPGAKVALQHNLGIGGAVVTLYKMGFPEAASSFRTHQIEAVPTSSASDGFKANLVFKEIEKKLEEEGEQ
FVKKIGGIFAFKVKDGPGGKEATWVVDVKNKGKSVLPNSDKKADCTITMADSDFLALMTGKMNPQSAFFQGLKI
TGNMGLAMKLQNLQLQPGNAKL

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FIGURE 237

GGCCCTGCGCGCGGCAACATGGCGGGGTCCAGGTGGAGGTCTTGAGGCTATCAGATCGGTATGCGCATTGGCGTCC
GGGCCCCGAAGGCGGGCGCTAGCTGGCTCCGGGCAGCTCGGCCTTGGGGGGCTTCGGGGCCCCGAGACGCGGGGCG
TATGAGTGGGGCGTGCGTCCACGCGGAAGTCGGAGCCTCCTCCCTGGATAGGGTGTACGAGATCCCTGGACTG
GAGCCCATCACCTTTGCGGGGAAGATGCACTTCGTGCCCTGGCTGGCGCGGCCGATCTTTCCGCCCTGGGACCGC
GGCTACAAGGACCCAAGGTTCTACCGCTCGCCCCCTCTTCACGAGCATCCGCTGTACAAAGACCAGGCCTGCTAT
ATCTTTACCAACCGTTGCCGCTTCTCGAGGGTGTAAAGCAGGCCCTCTGGCTCACCAAGACCAAGTTAATAGAA
GGCCTTCCCGAGAAAAGTGCTTAGCCTTGTTGATGATCCAAGGAACCATAGAGAACCAAGACGAGTGCGTTCTG
AATGTGATCTCTCACGCCCCGTCTCTGGCAGACCACTGAGGAAATCCCCAAGAGAGAGACCTACTGCCCGGTCATC
GTGGACAACCTAATACAGCTGTGTAAATCTCAGATTCTCAAGCATCCTTCTCTGGCCAGGAGGATCTGTGTCCAA
AACTCCACGTTTTTCTGCTACCTGGAACCGAGAGTCTCTTCTCCTTCAAGTCCGTGGTTCTGGTGGAGCCCGACTG
AGCACTAAGGATCCTCTGCCCACCATCGCCTCCAGAGAGGAGATTGAAGCTACTAAGAATCATGTTCTAGAGACC
TTCTACCCCATATCACCCATCATCGATCTTCATGAATGCAATATTTATGATGTGAAAAATGACACAGGATTCCAG
GAAGGCTATCCTTACCCCTATCCCATACCCCTGTACTTACTGGACAAAGCCAATTTACGACCACACCGCCTTCAA
CCAGATCAGCTGCGGGCCAAGATGATCCTGTTTGTCTTTGGCAGTGCCCTGGCTCAGGCCCCGGCTCCTCTATGGG
AATGATGCCAAGGTCTTGAGCAGCCCGTGGTGGTGACAGCGTGGGCACGGATGGACGTGTCTTCCATTTCCTA
GTGTTTCAACTGAATACCACAGACCTGGACTGTAACGAGGGTGTCAAGAATTTGGCCTGGGTGGACTCAGACCAG
CTCCTCTATCAGCATTTTTTGGTGTCTCCAGTGATCAAAAAGAGAGTGGTTGTGGAACCTGTTGGGCCAGTTGGT
TTCAAGCCAGAGACATTCAGAAAGTTTTTAGCTCTATATTTGCATGGTGCTGCGTGAAGCGGAGGACCCCTCTGAA
TCCTGAAACCCCTCTTGCCCTCTTCCACGGAAGAGGGCCTGGGCCCCGTGGAGCCTCAGTGCCCGTTTGGCCTG
CTGCTCTCGCTGACAATAAAGAGCCCTTGCGTTGC

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FIGURE 238

MALASGPARRALAGSGQLGLGGFGAPRRGAYEWGVRSTRKSEPPPLDRVYEIPGLEPITFAGKMHFVPWLARPIF
PPWDRGYKDPRFYRSEPLHEHPLYKDQACYIFHHRCRLLEGVKQALWLTKTKLIEGLPEKVLSLVDDPRNHIEHQ
DECVLNVISHARLWQTTEEIPKRETYCPVIVDNLIQLCKSQILKHPSLARRICVQNSTFSATWNRESLLLQVRGS
GGARLSTKDPLPTIASREEIEATKNHVLETFPISPIDIHECNIYDVKNDTGFGQEGYPYPHTLYLLDKANLR
PHRLQPDQLRAKMILFAFGSALAQAARLLYGNDKVLQEPVVVQSVGTDGRVFHFLVFQLNITDLCNEGKKNLAW
VDSQQLLYQHFWCPLVIKKRVVVEPVGPVGFKPETFRKFLALYLHGAA

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FIGURE 239

CCGCGGCCGGGGCTGACGCTTTGACAGCTGGAAAAGAGCGCGGAGCCAGCGCCTGGGGGGGAGGGAGGGGAGCGCG
GCGAGGAGAGCGCCAGCGAGCGAGAGAGCGAGCGAGCGCGCGGGGAGGGGGCCGGGAGCGAGGGGCAGCTCGGGAG
AGCCGGAGCGGTAGCGGCGGGCGGGCGGGCGGGCGAGGCTCGGCGCCCTCTTCCCTGCAAACCATGTTTGGCA
AAGGCAAAGGCTCGGCGGTGCCCTCGGATGGGCAGGCTCGGGAAAAGTTAGCTTTATACGTCTACGAATATTTAC
TGCACGTAGGAGCACAGAAATCTGCACAGACCTTCTTATCGGAGATTTCGATGGGAAAAAACATCACGTTGGGAG
AACCGCCTGGGTTTTTGCACTCGTGGTGGTGTGTATTTGGGACCTTTACTGTGCAGCTCCTGAAAGGAGAGACA
CTTGTGAACATTCAAGTGAAGCAAAGCCTTTCATGATTATAGTGCAGCAGCTGCCCCGAGCCCCGTGCTTGGCA
ACATTCCCCCAACGATGGGATGCCGGGAGGCCCCATCCCGCCAGGTTTCTTTCAGGGTCCTCCGGGGTCACAGC
CCTCGCCGCACGCACAGCCTCCACCTCACAATCCTAGCAGCATGATGGGACCCACAGTCAGCCTCCGGGAGGAG
TTCTGGGACACAGCCATTGCTGCCCAATTCTATGGATCCACACGACAACAAGGCCACCCCAACATGGGAGGAT
CAATGCAGAGAATGAACCTCCCGAGGCATGGGGCCATGGGTCCCGGCCACAGAATTACGGCAGCGGCATGA
GACCACCACCAACTCCCTCGGCCCCGCCATGCCCGGGATTAAACATGGGCCCCGGGAGCTGGCAGACCCTGGCCCA
ATCCTAACAGTGCTAACTCAATTCCATACTCCTCCTCATCACCTGGTACCTATGTGGGACCCCTGGTGGTGGCG
GTCCTCCAGGAACACCCATTATGCCAGTCCCGCAGATTCAACAAATTCCAGTGACAACATCTACACAATGATTA
ATCCAGTGCCGCTGGAGGCAGCCGGTCCAATTCCCGATGGGTCCCGGCTCGGACGGTCCGATGGGCGGCATGG
GTGGCATGGAGCCACACCACATGAATGGATCATTAGGTCAGGCGACATAGACGGAATTCCAAAAAATTCCTTA
ACAACATAAGTGGCATTAGCAATCCTCCAGGCACCCCTCGAGATGACGGCGAGCTAGGAGGGAACCTCCTCCACT
CCTTTCAGAACGACAATTATTCTCCAAGCATGACGATGAGTGTGTGATCCCCCTTCTCCGAGACGCTGAGAGAG
CAGGCATTGCAGGCGGGAAGATGCCAGAAATTATGCAAGAAGTGAGGTGTCATTATCCAGGAGCTGGTGGGGAGG
GCATCTCCCTGCTCCCTCAACCCCTCCACCCCATCCACGCCCCCTACCTTCCCAATTTAGTTTCATGCAA
TAAAAAGGCCAAACTTTTATTCCATAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAA .

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FIGURE 240

MFAKGKGSAPVSDGQAREKLALYVYEYLLHVGAQKSAQTFLSEIRWEKNITLGEPPGFLHSWWCVFWDLYCAAPE
RRDTCEHSSEAKAFHDYSAAAAPSPVLGNIPPNDGMPGGPIPPGFFQGPPGSQPSPHAQPPPHNPSSMMGPHSQP
PGGVPGTQPLLNSMDPTRQQGHPNMGGSMQRMNPPRGMGPMGPGPQNYGSGMRPPPNLGPAMPGINMGPGAGR
PWPNPNSANSIPYSSSSPGTYVGPPGGGGPPGTFIMPSPADSTNSSDNIYTMINPVPPGGSRSNFPMPGPGSDGPM
GGMGMEPHHMNGSLGSGDIDGLPKNSPNNISGISNPPGTPRDDGELGGNFLHSFQNDNYSPSMTMSV

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FIGURE 241

ATGTACGCCCTTTGTGCGGTTCTTGAGGACAACGTCTGCTACGCGCTGCCCGTGTCTGCGTGCGCGACTTCAGC
CCCCGCTCGCGGCTGGATTTTGACAACCAGAAGGTGTACGCCGTGTACCGGGGCCCGGAGGAATTGGGCGCGGG
CCCGAGAGCCCCCGCGCGCCCCCGCGACTGGGGCGCGCTGTTGCTCCACAAGGCCAGATCCTGGCGCTGGCA
GAAGACAAATCTGACCTTGAAAACAGTGTGATGCAGAAGAAAATAAAAATCCCCAAGCTTTCTCTTAATCATGTA
GAAGAAGATGGAGAGGTTAAAGATTATGGGGAAGAAGATTTACAGCTTAGACACATCAAGGATTGTCTGGGGAAA
TATTGATCTGCAGTCCAAGAAAATCCCAGCTGCCCTTGCCCTGAACTGATTCTCGTTGTCTTACACAGAGACCTGA
GGGGCGGAAGCCGAGCGAAGTGGCGCACAGAGCATCGAGGCAGTGGTGGCTCGGCTAGAGAAGCAGAACGGCCT
GAGCCTGGGGCCATAGCACGTGTCCGGAAGAGGTCTTCGTGGAGGCCTCGCCAGGCACAGAGGACATGGACAGTCT
AGAAGATGCTGTGGTGCCCCGGGCTCTGTATGAGGAGCTGCTGCGCAACTACCAGCAGCAACAGGAAGAGATGCG
CCACCTCCAGCAGGAGCTGGAGCGGACTCGGAGGCAGCTGGTACAACAGGCCAAGAAGCTCAAGGAGTACGGGGC
ACTTGTGTCTGAAATGAAGGAGCTCCGTGACCTTAACCGGAGGCTCCAGGACGTGCTGCTCCTGAGGCTTGGCAG
CGGTCCCGCCATTGATCTGGAAAAAGTAAAGTCAGAATGTCTCGAGCCCGAGCCGGAGTTACGGAGCACTTTCAG
TGAGGAAGCAAATACGTCGTCCTATTACCCCGCTCCTGCGCCTGTCTATGGACAAGTATATCCTAGACAATGGCAA
GGTCCATCTGGGAAGCGGGATTTGGGTTGATGAGGAGAAATGGCACCAGCTACAAGTAACCCAAGGAGATTCCAA
GTACACGAAGAACTTGGCAGTTATGATTGGGGAACAGATGTTCTGAAAAACAGAAGCGTCAAGGCGTCGCCAC
AAAAAAAAAGAAAGATGCAGTCCCTAAACCACCCCTCTCGCCTCGCAAACTAAGCATCGTCAAGAGAGTGTGTA
TGACAGAATAGCACAAGAACTGTGGATGAACTGAAATTGCACAGAGACTCTCCAAAGTCAACAAGTACATCTG
TGAAAAATCATGGATATCAATAAATCCTGTAAAAATGAAGAACGAAGGGAAGCAAAATACAATTTGCAATAAAC
TTTGGATTTTTCAT

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FIGURE 242

MDSLEDAVVPRALYEELLRNYQQQEEMRHLQQELERTRRQLVQQAKKLKEYGALVSEMKELRDLNRRLQDVLLL
RLGSGPAIDLEKVKSECLEPEPELRSTFSEEANTSSYYAPAPVMDKYILDNGKVHLGSGIWWDEEKWHQLQVTQ
GDSKYTKNLAVMIWGTDLKNRSVTGVATKKKKDAVPKPPLSPRKLSIVRECLYDRIAQETVDETEIAQRLSKVN
KYICEKIMDINKSCKNEERREAKYNLQ

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FIGURE 243

CCTTTCGTTGCCTGATCGCCGCCATCATGGGTCGTATGCGTGCTCCTGAGAAGGGCCTGTCCCAGTCGGCTTTAC
CCTATCGACGCAGCTTCCCCACTTGGTTGAAGTTGACATCTGACGACGTGAAGGAGCAGATTTACAACTGGCCA
AGAAGGGCCTTACTCCTTCACAGATCGGTGTAATCGTGAGAGAATCACATGGTGTTGCACAAGTACGTTTTGTGA
CAGGCAATCTCTACCATTTAATTAAGAAAGCAGTTGCTGTTCAAAGCATCTTGAGAGGAACAGAAAGGATAAGGA
TGCTAAATTCCATCTGATTCTGATAGAGAGCCAGATTCACCGTTTG

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FIGURE 244

CGCCGCCATCATGGGTCGTATGCGTGCTCCTGAGAAGGGCCTGTCCCAGTCGGCTTTACCCTATCGACGCAGCTT
CCCCACTTGGTTGAAGTTGACATCTGACGACGTGAAGGAGCAGATTTACAAACTGGCCAAGAAGGGCCTTACTCC
TTCACAGATCGGTGTAATCGTGAGAGAATCACATGGTGTTCACAAAGTACGTTTGTGACAGGCAATAAAATTTT
AAGAATTCTTAAGTCTAAGGGACTTGCTCCTGATCTTCCTGAAGATCTCTACCATTTAATTAAGAAAGCAGTTGC
TGTTCAAAGCATCTTGAGAGGAACAGAAAGGATAAGGATGCTAAATTCCATCTGATTCTGATAGAGAGCCAGATT
CACCGTTTGGCTCAATATTATAAGACCAAGCGAGTCCTCCCTCCCAGTTGGAAATATGAATCATCTACAGCCTCT
GCCCTGGTCGCATAAAATTTGTCTGTGTACTCAAGCAATAAAATGATTGTTTAACTAAAATAAAACAAAAACAAA
ACAAAAAA

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FIGURE 245

AGAAGATGCTTCAAATTC AACCCGAGAAGGATATCATTGTAGAGTTTATCAAAAATGGAGATTTCAAGTATGTCC
GCATGCTGGGGGCACTTTACATGAGGCTGACAGGCACTGCAATTGATTGCTACAAGTACTTGGAACCTTTGTACA
ATGACTATCGAAAAATCAAGAGCCAGAACCGAAATGGGGAGTTTGAATTGATGCATGTTGATGAGTTTATTGATG
AACTATTGCACAGTGAGAGAGTCTGTGATATCATTCTGCCCCGACTACAGAAACGCTATGTATTAGAGGAAGCTG
AGCAACTGGAGCCTCGAGTTAGTGCTCTGGAAGAGGACATGGATGATGTGGAGTCCAGTGAAGAGGAAGAAGAGG
AGGATGAGAAGTTGGAAAGAGTGCCATCACCTGATCACCGCCGGAGAAGCTACCGAGACTTGGACAAGCCCCGTC
GCTCTCCCACTGCGCTACAGGAGGAGTAGGAGCCGGTCTCCAGAAGGCGGAGTCGATCTCCCAAAGGAGAA
GCCCCCTCCCTCGCCGAGAAAGGCATCGGAGCAAGAGTCCAAGACGTCACCGCAGCAGGTCCCGAGATCGGCGGC
ACAGATCCCGTTCCAAGTCCCAAGGTATCACCGTAGTCACAGACACAGGAGCCACTCAAAGTCTCCCGAAAGGT
CTAAGAAGAGCCACAAGAAGAGCCGGAGAGGGAATGAGTAATGGACTCAGTTTGGTTTTAGTCCACATGGCCCTCC
TGTGGATATAAGGATATCTGTATGTGGAAGGATTAAGATCTCCCCAGGCAGCTATAAGAATATTTTAGTTTTT
TCTTATCAAGTTTCTCAACCTTTATTTTTAATGAAGGAGGTGCTGAGTTTTGTATCTTTTTAATCATAATCAACA
TCAGTTTTTGACCAACTAACCTTGACTGTATTCAAACCTTATGAGAGTATAAAGGATCTGGAGGTTGGGGATATG
ACTGACAAGGAAAGGCTGTGGCCACCTGATGACCCTTTCCCTTTTTATTAAACCGGACACACCTGTTTCCCATTT
CGCTGTAGTTTAGTTTTTGGTTTGTGTGGTTGGAAGTCTTTGAGAATCCTGGGATTGTGCTGCTGCTGTTAT
TCAAAGATCAAAGGAGTAAACATAGTTGCTCCTAACTTTTTTCCAGCAGCAGCAAGTGGTAATAAACATGAAAA
CTGGTTTGTAGCAGTTTTTGAAAGAATAGAATGCATTCAAATGTAAGGCTGCTTCTGGATCATTAAAGCCAGTTTC
ATCAAACAGTTCAACAGAGAGCAGCACTTAATACCCTTTATACAGCCCATTTTTTTCATAGTTTCATTTGTTCTTG
CCCACAAGCTTGAAATCCAGGTTAAGGTATCCAGCCTTTATCATATAAGCATTGACATTATCCAGGCCTAGTCAG
TAGCAGTAGGGTAACGGGATTGAAAAAGATTTGATGGAGAGGAAAGTATCTAATATTAGTCATGGTTTTTGACCTA
AATTGCTAGACAGTCGTGCCATTCAAAAGTCAGAAAATACAGCAGGAAGAGACAGCTTTTAGAGGGGCGAGAGAA
TTAGAGGATGGTGGTAGTAATGAAAAAGATGCATTGAGTTTAAACAAGTTTAATTTGAGACAGCTATGGTATAGCT
AAAAACAAAAGCCCATAAAGTTGGAGATAGGGACCAGAGTTTAAACATAGCGATCTAGGCCAGAATTGACAAATGTT
TAAGTAATGGTGAATCTGTCAATAAGACTTCCAGAGTGTTAATATATATCAGAAATGCACACAACAGAACCAT
AGGCAACACCAACACAGGAAGAAATAGAAGTCACCTATTGAAAACCTGGAATGGCCATTGAGAAAGACAGGAGAA
TTAGGAGAGAGTGAGTGAAAGAAGCCAAGGGTCAAGAATGCAGAAGCAAAGGAAGGACTAAAAAGCCTCCACGGA
CATCGATAATCAAGAGATTATTAAGATCTTTGCTAGAAGAGTTTCCCTTACCTGTACTTAACCTCCCTTAAAAAGAG
AAAAGTGATGGAATGACTTCTGCAACTGTAGTCCCAGCAGGAAGTGTGAAGACCAGCTGCCCTGCAGGATCCAGT
TTTTCTTGGGAGTTGTATCTGGTCATAAGGTAAACATTCTATATATTCTATGCCTGCTCTAGAATTGAAAGACT
TCAGCAGTATTAAAGCATTTTTTAATCTT

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FIGURE 246

MLQIQPEKDIIVEFIKNGDFKYVRMLGALYMRLTGTAIDCYKYLEPLYNDYRKIKSQNRNGEFELMHVDEFIDEL
LHSERVCDIILPRLQKRYVLEEAEQLEPRVSALEEDMDDVESSEEEEEDEKLERVPSPDHRRRSYRDLDKPRRS
PTLYRRSRSRSPRRRSRSPKRRSPSPRRERHRSKSPRRHRSRSDRRHRSRSKSPGHHRSHRHRSHSKSPERSK
KSHKKSRRGNE

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FIGURE 247

GTTCGGGCCAGATGGCGTCCATCATGGAAGGGCCGCTGAGCAAATGGACTAACGTGATGAAGGGCTGGCAGTACC
GTTGGTTCTGTGCTGGACTACAATGCAGGACTGCTCTCCTACTACACGTCCAAGGACAAAATGATGAGAGGCTCTC
GCAGAGGATGTGTTAGACTCAGAGGAGCTGTGATTGGTATAGACGATGAGGACGACAGCACCTTCACAATAACTG
TTGATCAGAAAACCTTCCATTTCCAGGCCCGTGATGCTGATGAGCGAGAGAAGTGGATCCATGCCTTAGAAGAAA
CAATTCCTTCGACATACTCTCCAGCTTCAAGGTTTGGATTTCAGGATTTGTTCCCTAGTGTCCAAGATTTTGATAAGA
AACTTACAGAAGCTGATGCTTACCTACAAATCTTGATTGAACAATTAAAGCTTTTGTATGACAAGCTTCAAACT
GCAAAGAAGATGAACAGAGAAAAGAAAATTGAACTCTCAAAGAGACAACAAATAGCATGGTAGAATCAATTAAAC
ACTGCATTGTGTTGCTGCAGATTGCCAAAGACCAGAGTAATGCCGAGAAGCACGCAGATGGAATGATAAGTACTA
TTAATCCCGTAGATGCAATATATCAACCTAGTCCTTTGGAACCTGTGATCAGCACAAATGCCTTCCCAGACTGTGT
TACCTCCAGAACCTGTTTCAGTTGTGTAAGTCAGAGCAGCGTCCATCTTCCCTACCAAGTGGACCTGTGTTGGCTA
CCTTGGGACATCATCAGACTCTACACCAAATAGTACAGGCAGTGGCCATTACCACCGAGTAGCAGTCTCACTT
CTCCAAGCCACGTGAACCTTGTCTCCAAATACAGTCCCAGAGTCTCTTACTCCAGCAGTGAAGATGAATTTTATG
ATGCTGATGAATTCCATCAAAGTGGCTCATCCCCAAAGCGCTTAATAGATTCTTCTGGATCTGCCTCAGTCTCTGA
CACACAGCAGCTCGGGAAATAGTCTAAAACGCCAGATACCACAGAATCACTTAATCTTCTTGTCCAATGGAA
CAAGTGATGCTGACCTGTTTGATTACATGATGACAGAGATGATGATGCCGAGGCAGGGTCTGTGGAGGAGCACA
AGAGCGTTATCATGCATCTCTTGTGCGAGGTTAGACTTGGAAATGGATCTTACTAAGGTAGTCTTCCAACGTTTA
TTCTTGAAAGAAGATCTCTTTTAGAAATGTATGCAGACTTTTTTGCACATCCGGACCTGTTTGTGAGCATTAGTG
ACCAGAAGGATCCCAAGGATCGAATGGTTTCAGGTTGTGAAATGGTACCTCTCAGCCTTTCATGCGGGAAGGAAAG
GATCAGTTGCCAAAAGCCATACAATCCCATTTTGGGCGAGATTTTTCAGTGTCAATTGGACATTACCAATGATA
CTGAAGAGAACACAGAACTAGTTTCAGAAGGACCAGTTCCCTGGGTTTCCAAAACAGTGTAACATTTGTGGCTG
AGCAGGTTTCCCATCATCCACCCATTTTCAGCCTTTTATGCTGAGTGTTTTAACAAGAAGATACAATTCATGCTC
ATATCTGGACCAAATCAAATTCCTTGGGATGTCAATTGGGGTGCACAACATAGGGCAGGGCTGTGTCTCATGTC
TAGACTATGATGAACATTACATTCTCACATTCCCCAATGGCTATGGAAGGTCTATCCTCACAGTGCCTGGGTGG
AATTAGGAGGAGAATGCAATATTAATTGTTCCAAAACAGGCTATAGTGCAAATATCATCTTCCACACTAAACCTT
TCTATGGGGGCAAGAAGCACAGAACTTACTGCCGAGATTTTTTCTCCAAATGACAAGAAGTCTTTTTGTCTCAATTG
AAGGGGAATGGAATGGTGTGATGTATGCAAAATATGCAACAGGGGAAAATACAGTCTTTGTAGATACCAAGAAGT
TGCCTATAATCAAGAAGAAAGTGAGGAAGTTGGAAGATCAGAACGAGTATGAATCCCGCAGCCTTTGGAAGGATG
TCACTTTCAACTTAAAAATCAGAGACATTGATGCAGCAACTGAAGCAAAGCACAGGCTTGAAGAAAGACAAAGAG
CAGAAGCCCGAGAAAGGAAGGAGAAGGAAATTCAGTGGGAGACAAGGTTATTTTCATGAAGATGGAGAATGCTGGG
TTTATGATGAACCATTACTGAAACGCTCTTGGTGCTGCCAAGCATTAGGTTGGAAGATGCAAAGTTTATACCTGAT
GATCAGGGCAGTAGGCATAATTCAGCAACAAACAATCTCTCTTGGGAGAAACCTGTTTCATCCAATCTTCTAAT
TACAGTGGTTCTATCTCAGGGTACTGGACTTTCTGACGCAGATGAACAATTAAGGGGAAAAGCTTCCCTTTTC
CCTCTGTGGCAGTTACGATTTTGAATTCAGTCTGAGAAAACTTCAGGTTTGAATTCAGATGATGTCTTCTC
CTTTTCCAAACACCACACGTTGAAAGCATTTATAAATCCAAGTCTGAACTCTGCGCTCTAGTACTGCTGTTAAG
ATACACAACCTGTTTCTTAGTTTATATAATCTCGGGATACACACACACACATATATATACACACACATACG
TATACACACACATACATATATATAAATATACCTGATGCCAGATTTTTTTCATAAATATTCTGCCTACTGTAAATA
TGGGTTCCCTCTGAGTTGTTTTAGAAAATTAGCGCAATGTATTAATCAAGTGTTAGGAAATTTCTAGGTTCTTAC
CTACAATACTTTTATTTTGAATTGAATATTATTAATGTATCTAATCCTGGATTACAGTTTAATTAATTAT
TCTTAGTGCTTAAGGCTTCATAAAGTAATTTTTTCCAACCTTTTTTTTAAAAAAA

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FIGURE 248

MASIMEGPLSKWTNVMKGWQYRWFVLDYNAGLLSYITSKDKMMRGSRRGCVRLRGAVIGIDDEDDSTFTITVDQK
TFHFQARDADEREKWIHALEETILRHTLQLQGLDSGFVPSVQDFDKKLEADAYLQILIEQLKLFDDKLQNCKED
EQRKKIETLKETTNSMVESIKHCIVLLQIAKDQSNAEKHADGMISTINPVDAIYQPSPLEPVISTMPSQTVLPPE
PVQLCKSEQRPSLPVGPVLATLGHHQTPTPNSTGSGHSPSSSLTSPSHVNLSPNTVPEFSYSSSEDEFYDADE
FHQSGSSPKRLIDSSGSASVLTHSSSGNSLKRPDTTESLNSSLNGTSDADLFDSDHDDRDDAEAGSVEEHKSVI
MHLLSQVRLGMDLTKVVLPTFILERRSLLEMYADFFAHPDLFVVSISDQKDPKDRMVQVVKWYLSAFHAGRKGSVA
KKPYNPILGEIFQCHWTLPNDEENTEELVSEGPVPWVSKNSVTFVAEQVSHHPPISAFYAEFCFNKKIQFNAHIWT
KSKFLGMSIGVHNIGQGCVSCLDYDEHYILTFPNGYGRSILTPWVELGECNINCSKTGYSANIIFHTKPFYGG
KKHRITAEIFSPNDKKSFCISIEGEWNGVMYAKYATGENTVFVDTKKLP I I KKKVRKLEDQNEYESRSLWKDVTFN
LKIRDIDAATEAKHRLEERQRAEARERKEKEIQWETRLFHEDGECWVYDEPLLKRLGAAKH

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FIGURE 249A

CCCGGGCTGTGGGCTACAGGCGCAGAGCGGGCCAGGCGCGGAGCTGGCGGCAGTGACAGGAGGCGCGAACCCGCA
GCGCTTACCGCGCGGCGCCGCACCATGGAGCCCGCCGTGTCGCTGGCCGTGTGCGCGCTGCTCTTCTGCTGTGG
GTGCGCCTGAAGGGGCTGGAGTTCGTGCTCATCCACCAGCGCTGGGTGTTCTGTGCTCTTCTCTGCTGCGCTC
TCGCTTATCTTCGATATCTACTACTACGTGCGCGCCTGGGTGGTGTTCAGCTCAGCAGCGCTCCGCGCCTGCAC
GAGCAGCGCGTGCAGGACATCCAGAAGCAGGTGCGGGAATGGAAGGAGCAGGGTAGCAAGACCTTCATGTGCACG
GGGCGCCCTGGCTGGCTACTGTCTACTACGTGTCGGGAAGTACAAGAAGACACAAAAACATCATGATCAAC
CTGATGGACATTCTGGAAGTGGACACCAAGAAACAGATTGTCCGTGTGGAGCCCTTGGTGACCATGGGCCAGGTG
ACTGCCCTGCTGACCTCCATTGGCTGGACTCTCCCCGTGTTGCCTGAGCTTGATGACCTCACAGTGGGGGGCTTG
ATCATGGGCACAGGCATCGAGTCATCATCCACAAGTACGGCCTGTTCCAACACATCTGCACTGCTTACGAGCTG
GTCCTGGGTGATGGCAGCTTGTGCGATGCACTCCGTCCGAAAACCTCAGACCTGTTCTATGCCGTACCCTGGTCC
TGTGGGACGCTGGGTTTCTGGTGGCCGCTGAGATCCGCATCATCCCTGCCAAGAAGTACGTCAAGCTGCGTTTC
GAGCCAGTGCAGGGGCCGAGGCTATCTGTGCCAAGTTACCCACGAGTCCAGCGGCAGGAGAACCACTTCGTG
GAAGGGCTGCTCTACTCCCTGGATGAGGCTGTCAATTATGACAGGGGTGATGACAGATGAGGCAGAGCCAGCAAG
CTGAATAGCATTGGCAATTACTACAAGCCGTGGTTCTTTAAGCATGTGGAGAACTATCTGAAGACAAACCGAGAG
GGCCTGGAGTACATTCCCTTGAGACACTACTACCACCGCCACACGCGCAGCATCTTCTGGGAGCTCCAGGACATT
ATCCCCCTTGGCAACAACCCCATCTTCCGCTACCTCTTTGGCTGGATGGTGCCTCCCAAGATCTCCCTCCTGAAG
CTGACCCAGGGTGAGACCTTGCAGCAAGCTGTACGAGCAGCACCACGTGGTGCAGGACATGCTGGTGGCCATGAAG
TGCCTGCAGCAGGCCCTGCACACCTTCCAAAACGACATCCACGTCTACCCCATCTGGCTGTGTCCGTTTCATCCTG
CCCAGCCAGCCAGGCCTAGTGCACCCCAAAGGAAATGAGGCAGAGCTCTACATCGACATTGGAGCATATGGGGAG
CCGCGTGTGAAACACTTTGAAGCCAGGTCTGCATGAGGCAGCTGGAGAAGTTTGTCCGCAGCGTGCATGGCTTC
CAGATGCTGTATGCCGACTGTACATGAACCGGGAGGAGTTCTGGGAGATGTTTGATGGCTCCTTGACACAAG
CTGCGAGAGAAGCTGGGTTGCCAGGACGCCTTCCCCGAGGTGTACGACAAGATCTGCAAGGCCGCCAGGCATGA
GCTGGAGCCCGCTGGAGAGACAGACAGTGTGAGTGGTCAGGCATCTTCCCTTCACTCAAGCTTGGCTGCTTTC
CTAGATCCACACTTTCAAAGAGAAAACCCCTCCAGAACTCCACCCCTGACAGCCCAACACCACCTTCTCCTGGCT
TCCAGGGGGCAGCCAGTGGAAATGGAAAGAATGTGGGATTGTGGAGTCAGACAAGCCTGAGTCCAGTTCCCGGTTT
AGAACTCATTAGCTGTGTGACTCTGGGTGAGTCCCTTAACCCCTCTGAGCCCGGTCTCTTCAATTAGTTGAAAGG
GATAGTAATACCTACTTGCAGGTTGTTGTCTCATCTGAGTTGAGCACTGGTCACATTGAAGGTGCTGGGTAAGTGGT
AGCTCTTGTGCTTCCCGTTCAGCGTCACATCTGCAGTGGAGCCTGAAAAGGCTCCACATTAGGTACCTGTGCA
CAGCCATGGCTGGAATGATGAAGGGGATACGCTGGAGTTGCCCTGCCATCGCTCCATCAGCCAGACGAGGTCTT
CACAGGAGAAGGACAGCTCTTCCCCACCTGGGATCTCAGGAGGGCAGCCACGGAGTGGGGAGGCCCCAGATGCG
CTGTGCCAAAGCCAGGTCCGAGGCCAAAGTTCTCCCTGCCATCCTTGGTGCCGCTCTGCCCCCTTCTCCTTCATG
CCTGGGCCTGCAGGCCCACCCAGCCACCCTGAGTCCACTCGGAGTGCCCTGTGTTCTTGAGAGAAGGCATTCCA
GGGTTGAATCTTGTCCAGCCTCAGCCTGGGACACCTAGGTGGAGAGAGTGGTCTCCGCTCTGAATTGGATCCAG
GGGACCTGGGCTCATTCTTCTGGCTCACCAACCCTGCAGGCCTCATCTTCCCAAAACCCACTTTGTCTTGGTG
GGAGTGGGTCCGCGCTGCTCTGCAGCAGGGGCTGGGAGTGGACAGCATCAGGTGGGAAAGTGGAGTCCACCCCTC
ATGTTTCTGTAGGATTCTCACCGTGGGGCTGGAAGAAAAGAGCATCGACTTGATTTCTCCAACCACTCATCCCTC
TTTTTCTTCTTCCACCACTCCCCACCCAGCTGTAGTTAATTTCACTGCCTTACAAATCCTAAGCTCAGAGAAA
GTTCCATTTCCGTTCCAGAGGGAAGGGAACCTCCCTAGGTCTTCCCTGGCTTGTTATAACGCAAAGCTTGGTTG
TTTATGCAACTCTATCTTAAGAACTGCCAGCCTCAGCTGAAAACCCGAATCTGAGAAGGAATTGCGTCAATGTA
GGGAAGCTGGAATTAAGGGAGCTGAGCCAGTCATGGTTGTGGCGTGTGAGTCAGGAGACCTAGGTTTCAGCCCT
CTCTACTGTCTAGCGAGCTGTGCAACGTGGGCAAGTCATTGTCTCTGAGCTGCAGTTTCTCTCATCTGTCAATCG
CTACAGACAAGACCTCCCTGGAAACCTTCTGATTGTCTTAGACACTGTGGTTGCAAAACCCACGAAAGCCTCAT
TTGTGTGGAAGTCAGAGGAAAAATGATCCAGTGGACACTTGGGGATTATCTGTCAATCAAGATCCTTCTTCAA
CCCCAAGGTCAGTCCCATCTCATTCCAGAAAGGCTCATACCTGGCTTGCAAGGAAGCATCTGTCTTGTCAATC
CAGGTGCCAGAACTCTCAGAGTCATTGAAGGGTGTTCACCCATCCCAAGGCTTGGCACACTGCCAGTGT
CTTAGCAGGGTCTGTGAGGGCTGGGGGCATCCAGGCACTCAGAAGGCAAAGGAACCACCTACCCATTGGCCT
CTGGAGGGGGCAGAAGAAAGAAATAAACCTCATCTATATTTTACAAAGCATGTGAATCTGGCATTAGCTCTCA
TAGGAGACCCATGTGCTTCTTGGCTCAGTGCAAACTGATGATTCTACTTGCTGTAGATGAATGGTTAACACGAG

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FIGURE 249B

CTAGTTAAACAGTGCCATTGTTTTGCCAGTGAAGCCTCCAACCCTAAGCCACTGGGACGGTGGCCAGAGATGCCA
GCAGCCTCTGTGCGCCCTTAGTCATATAACCAAAATCCAGACCTTATCCACAACCCGGGGCTTGGAAAGGAAGGTA
TTTTGGAATCACACCCTCCGGTTATGTTGCTCCAGTAAAATCTTGCTGGAAAGAGGCAGTCTTCTTAGCATGGT
GAGCTGAGITCATGGCTTTTTTTGTAGCCAGTCCTGTCCCTGGCCATCCATGTGATGGTTTTGGATGGAGTTAA
ACTTGATGCCAGTGGGCAGTGCAATGTGGAAAGTATCAGAGTAAGGCTCTCCCCTCCAGAGCCCTGAGTTTCTTGG
CTGCATGAAGGTTTTCTTTAGAATCAGAATTGTAGCCAGTTTCTTTGGCCAGAAGGATGAATACTTGGATATTAC
TGAAAGGGAGGGGTGGAGATGGGTGTGGCAGTGTATGGTGTGTGATTTTTATTTTCTTCTTTGGTCAATGGGGGCC
AAGGAGAAAGGCATGAATCTTCCCTGTCAGGCTCTTACAGCCACAGGCACTGTGTCTACTGTCTGGAAGACATGT
CCCCATGGCTGTGGGGCCGCTGCTTCTGTTTAAATAAAAGTGGCCTGG

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FIGURE 250

GACATCATGGGCTATTTTTAGGGGTTGACTGGTAGCAGATAAGTGTTGAGCTCGGGCTGGATAAGGGCTCAGAGT
TGCACTGAGTGTGGCTGAAGCAGCGAGGCGGGAGTGGAGGTGCGCGGAGTCAGGCAGACAGACAGACACAGCCAG
CCAGCCAGGTCCGGCAGTATAGTCCGAAGTCAAATCTTATTTTCTTTTACCTTCTCTCTAACTGCCCAGAGCTA
GCGCCTGTGGCTCCCGGGCTGGTGTTCGGGAGTGTCCAGAGAGCCTGGTCTCCAGCCGCCCCCGGGAGGAGAGC
CCTGCTGCCCAGGCGCTGTTGACAGCGGCGGAAAGCAGCGGTACCCACGCGCCCGCGGGGGAAGTCGGCGAGCG
GCTGCAGCAGCAAAGAACTTTCCCGGTGGGAGGACCGGAGACAAGTGGCAGAGTCCCGGAGCCAACCTTTTGCAA
GCCTTTCCTGCGTCTTAGGCTTCTCCACGGCGGTAAAGACCAGAAGGCGGCGGAGAGCCACGCAAGAGAAGAAGG
ACGTGCGCTCAGCTTCGCTCGCACCGGTTGTTGAAGTGGGCGAGCGCGAGCCGCGGTGCGGGGCGCCCCCTCC
CCCTAGCAGCGGAGGAGGGGACAAGTCGTCGGAGTCCGGGCGGCCAAGACCCGCGCGCGGCCGCGCCACTGCAGGG
TCCGCACTGATCCGCTCCGCGGGGAGAGCCGCTGCTCTGGGAAGTGAGTTCGCTGCGGACTCCGAGGAACCGCT
GCGCACGAAGAGCGCTCAGTGAGTGACCGGCACTTTTCAAAGCCGGGTAGCGCGCGGAGTCGACAAGTAAGAGT
GCGGGAGGCATCTTAATTAACCTGCGCTCCCTGGAGCGAGCTGGTGAGGAGGGCGCAGCGGGGACGACAGCCAG
CGGGTGCGTGCGCTCTAGAGAACTTTCCCTGTCAAAGGCTCCGGGGGGCGGGGTGTCCCCGCTTGCCACAG
CCCTGTTGCGGCCCCGAAACTTGTGCGCGCAGCCCCAACTAACCTCACGTGAAGTGACGGACTGTTCTATGACTG
CAAAGATGGAAACGACCTTCTATGACGATGCCCTCAACGCTCGTTTCTCCCGTCCGAGAGCGGACCTTATGGCT
ACAGTAACCCCAAGATCCTGAAACAGAGCATGACCCTGAACCTGGCCGACCCAGTGGGGAGCCTGAAGCCGCACC
TCCGCGCCAAGAAGTCCGACCTCCTCACCTCGCCGACGTGGGGCTGCTCAAGCTGGCGTGCGCCGAGCTGGAGC
GCCTGATAATCCAGTCCAGCAACGGGCACATCACCACCACGCGGACCCCCACCCAGTTCCTGTGCCCCAAGAACG
TGACAGATGAGCAGGAGGGCTTCGCCGAGGGCTTCGTGCGCGCCCTGGCCGAAGTGCACAGCCAGAACACGCTGC
CCAGCGTCACGTCCGCGGCGCAGCCGGTCAACGGGGCAGGCATGGTGGCTCCCGCGGTAGCCTCGGTGGCAGGGG
GCAGCGGCAGCGCGGCTTCAGCGCCAGCCTGCACAGCGAGCCGCGGTCTACGCAAACCTCAGCAACTTCAACC
CAGGCGCGCTGAGCAGCGGCGGGCGGGCGCCCTCCTACGGCGCGGCGGCCCTGGCCTTTCCCGCGCAACCCAGC
AGCAGCAGCAGCCGCCGACCACTTGCCCCAGCAGATGCCCGTGCAGCACCCGCGGTGCAGGCCCTGAAGGAGG
AGCCTCAGACAGTGGCCGAGATGCCCGGCGAGACACCGCCCTGTCCCCATCGACATGGAGTCCAGGAGCGGA
TCAAGGCGGAGAGGAAGCGCATGAGGAACCGCATCGCTGCCCTCCAAGTGCCGAAAAAGGAAGTGGAGAGAATCG
CCCGCTGGAGGAAAAAGTGAACCTTGAAAGCTCAGAACTCGGAGCTGGCGTCCACGGCCAACATGCTCAGGG
AACAGGTGGCACAGCTTAACAGAAAGTCATGAACACGTTAACAGTGGGTGCCAACTCATGTAACGCAGCAGT
TGCAAACATTTTGAAGAGAGACCGTCCGGGGCTGAGGGGCAACGAAGAAAAAATAACACAGAGAGACAGACTT
GAGAACTTGACAAGTTGCGACGGAGAGAAAAAGAAGTGTCCGAGAACTAAAGCCAAGGGTATCCAAGTTGGACT
GGGTTGCGTCTGACGGCGCCCCAGTGTGCACGAGTGGGAAGGACTTGGCGCGCCCTCCCTTGCGCTGGAGCCA
GGGAGCGGCGCCTGCGGGCTGCCCCGCTTTGCGGACGGGCTGTCCCGCGCGAACGGAACGTTGGACTTTTCGT
TAACATTGACCAAGAACTGCATGGACCTAACATTCGATCTCATTAGTATTAAAGGGGGAGGGGGAGGGGTTA
CAAAGTGAATAGAGACTGTAGATTGCTTCTGTAGTACTCCTTAAGAACACAAAGCGGGGGAGGGTTGGGGAGG
GGCGGCAGGAGGAGGTTTGTGAGAGCGAGGCTGAGCCTACAGATGAAGTCTTCTGCGCTGCCTTCGTTAACTG
TGTATGTACATATATATATTTTTTAATTTGATGAAAGCTGATTACTGTCAATAAACAGCTTCATGCCTTTGTAAG
TTATTTCTTGTGTTGTTTGGGTATCCTGCCCAGTGTGTTTGTAAATAAGAGATTGGAGCACTCTGAGTTT
ACCATTTGTAATAAAGTATATAATTTTTTATGTTTTGTTTCTGAAAATTCCAGAAAGGATATTTAAGAAAATAC
AATAAACTATTGGAAAGTACTCCCTAACCTCTTTTCTGCATCATCTGTAGATACTAGCTATCTAGGTGGAGTTG
AAAGAGTTAAGAATGTCGATTAAATCACTCTCAGTGCTTCTTACTATTAAAGCAGTAAAACTGTTCTCTATTAG
ACTTAGAAATAAATGTACCTGATGTACCTGATGCTATGGTCAGGTTATACTCCTCCTCCCCAGCTATCTATAT
GGAATTGCTTACCAAAGGATAGTGCGATGTTTCAGGAGGCTGGAGGAAGGGGGTTGAGTGGAGAGGGACAGCC
CACTGAGAAGTCAAAACATTTCAAAGTTTGATTGTATCAAGTGGCATGTGCTGTGACCATTTATAATGTTAGTAG
AAATTTTACAATAGGTGCTTATTCTCAAAGCAGGAATTGGTGGCAGATTTTACAAAAGATGTATCCTTCCAATTT
GGAATCTTCTCTTTGACAATTCCTAGATAAAAAGATGGCCTTTGCTTATGAATATTTATAACAGCATTCTTGTCAC
CAATAAATGTATTCAAATACC

FIGURE 251A

[illegible]

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FIGURE 251B

CCATTGTTAACTCACAGGCCTCATAAAACATAGGCTGTTGGCTATTATTCTCCAACCCCTTGATCTAGAGAATTTT
AAACATTAGAATTTTGTGTTTACATTTGTTAAGCTTTACGTCATCTTCAAATGACACCAAACTCAGAATTATGAT
CTGCATTTAAGCCAATTTTAAAATAAAATAAGCAGTCAATGCTGCCTCATTTATTGAAATTCAGTAGATTTTAGT
TTATTTCTTAGTAGTCAGAGAATTGATTTATAGCTATTACCAAACATTCTTACTAACGTTTCCCTTATATCTAAA
TCAGATTGATTCTATATTTTGCTTTGTTTGTAATCAATAGCCAATGAAGAATAAGGAGTATTGGAAGAAGCAGTG
AGTCAGCTTTAGGTGACCTGGTTCTTGCTCAACTTTGTGATTGGGGAGATACAGTTTACTTTCCCTGAGCCTT
AATTCTTGTAAGTGAAGTCAACTTAACTTCTTAATGTCCTTCCAGAACTAAAAATTTATTGTTTCAATTCTAAT
CGTTGGACTACTCTTGTAAGTTTATATTTTGAGTTAATACAGTTTCCAAATTAACATACATTTAAAAAAAAG
GGTAGTATTTTCCATTTCTCTGTGTGCACTTAGGATAAACAGTGAAGTATAGCTTATAAAACAATTAGTTTGAG
GGCTGAGAGTGTAAGAGGAACATACCAAAAGTCAGGAAACCTGAGCTCTTACCCTAACTCTGTTACCAACTTTG
CTGTGTGACCTTAATCAAAACACATAACCTGGACCCCATGCTCCTCACCAGTAAATCAAGGGCCTGAATTTTATG
GCTTAGTATTCCCTTCCAAGCTCCGAAGTTGCGTGATTCTGTGAAGGCAGTGATTGATTCCCTTTGTACTCATCT
TCCTTTTGACCTGTTTCCCTCATGATATATTGGGGAACAAATACTAAAAAGTGTTTATACTAGCTTTCTTGATTG
ACATTTCCCTATAATACTGATGAATTTGGGTGATGGAAAGTAATGGAAATGTTTAAAGTTCTGCTCTCAAATCT
GAGTCTCCTTGCCCTGTGTGCCAATGTTTAAACCATATTTGCTAATCTAAGCCATATTGCGAGGATCTCAAGGATG
ATACTGTCAAGAGTTTGGGGCCTTGAGAGCACAGTTTTCAAATAATACTTAGTATTTCTGACTATAGAGTAC
ATTTGTCTTGAAAGTATATTTTAAAATACAGAGAAGTGTGAAGTACAAATATCTCAGTGCTACTATTTAAAAA
ACACAATTAGTATATAAATCCTTCCCCATTTTGTGACAGTATAATTTTAGTATGTTAAACTTGGTTACTTCTTT
CTCTCTTCCCTCCATCATTTTCCCTGCTTCTTTTCTTTTGTGCTATCTTAAACAATTTTGCAACCACAGGTA
CCCACATTGCTGGCACTACCAGCCTTGGGCTACTACCGAGGATAATGGAGCCAGGGCCTGTAGAAGCACAGAGG
AAGTCTAGAAGTGAAGGGGCTATGATACAGGAAGTTCAGGAGGCAGAGTCTCAAAGGAACACCTGCCTTTAATA
ATGTTTACAGAAGTGGAGAAAGGACTAAAGGACTTAAAGACATGCAGGTGCTTTCATCCTGATTCTGTCTTTGTT
ATTGCACAATGACTATAAATAATGACCTAATTTTCTTTTCTTGGCTTGGCTAATGGAAATCGACACTAGCG
CTTCCCAGTATTAGACTTAATCTAATTCCAAAGTAACATTCAAGAAAAGAAAAACCAGTGGAACAGGATCAGTA
AGCTCAGACTCTCCATCTCCATTATTTAGCCTTGACCATTCTTCTAATCCTTTTAAATTATCTTCAGTTTCC
AGTTCAAGTTACATTGCTTCAGTTACAGTTTGTGACCCTGTATTGAGAGTGCATTATGATTCTTGTGGGCC
TAGATAGTTTGGCATCTTAGACCCCTTCTTCCATACAAAATTAAGTGATATTTTACAATTGTATCTGTATGA
AATGAATGTATTAATATTTTAGATTAAACATTTGTTTGAAGTTCAGTTTCTTATGAGGCTAAAAAAT
TAAACATTTTGTGGGCTTCTAAAAAAGTGGGCTTAGGTACTGTGCCTAATGGATAAGTTGGCATTGGCTG
TATTCTGAAGGGCATCATTGGAAAAATAGCAGTCATTATCTGTCCCTTCTCCCACCACACAGTCCCTGGAGA
AGCCTTTGCCACTCCATCCAGGAGCACTGCAGTTCCACGGTTATAGATCTATAGACTTGAACCTTACTTCTTCC
CAACCTAACGAAAACCTCACAAGGATTACTTGGGACCATTCATCCTCAAAAAAGATAGGAGGCAGTGGTTTGT
AGTCTTCAGATATTTTGTGTTTGGTCAGTCCCTAATCTGTATTTTGAAGTCTGTCACACTTGAAGGGAAAC
ATCCTACTACCTTCTTCTCTCCATTTCCACAAACCCCTTCTTCTCATCATCACTCCCTGCATTCTTACTTCT
CAGCATATAAATACAAGACCCCTTCTTCTATTTTGTGAAAGCTAGGCCTGTAAAATAGAGATGGACAGACCA
TGCATGTTTCCATGAAGCTATTTAATGCTGCTCCAGTCTTCTGTCCATACCATTCTTCCCTGCCCTTAGGAGT
GGGGTTGAGGTCTGTGACATGCAGACTGTAAGCACAGTCAGAACCTCTGCAGCTCTCAACCCAACAGAGGAGACT
GTGGCTTCAACATGCCAACCTGAGCAGGTCTCCTCTGCATTACCTTCTTCCATTTCTTCTTCTGGGTCTGTATG
AGGTGAGCTGGAGGAACCAATAGTCAGGATGCCCTGGAATTGATGTTGCTCTGTTTTGTGCTCACAAAACAGCCA
TGTAACACATGAGCACCTGAGTTGAAGCCATCCAGTCGCAAGTCAGCAGACAGCAGTTGATGGAATTCTCAGTAG
AAATTCAGTAAGGGTGCCCAATTTTATTTTTTTTTTACCTATACTCTACCAATATATGGTATTTAGGAAAAC
TCTTTTATCCAAGCACAAAGAAAAGCACACATTTTATAATCATCTGCTTCATCAGGGTAAATAAATAATTTA
ACAAATTTGATCAGCATCTCTAGTTTACCAGTACTTTAATATTAGTTTTCTTACAAATTAATGTATTTGCAATA
TTTCCAGAAAATCACTGTGGGAGATAATGTAATATACTTTAGGATATATTTCTGACCTTTTCTTAAATGGCTT
CAIGTGCTATTCCCCCAAATCTGCTTCTCTATTTTCTTTTTTATTTAACCTATAATTATACTTTCTAGTATAT
TCTGAGTCTATCTTCTAAGCCACCTTACATTTTTCTTGAACAAGGGAGGGAATAAATAGTTGCCTCCACTAAAT
CAGGAAAAAATAAATAATATCCAGGGGAGCTGTGATTATGCCAAGAGCTCTAAACAGAAGTTTGAGAAGGTAAAA
ATTAAGTTGTAGTATCTGAGTTGTTTTATTTTCTTCTTGGTGTGTTATGAAGGTATTCATAAGAAGTTTAAAT

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FIGURE 251C

TCAGGGGAAAAAATGCCTGATTGCTATTTTTGACATTTCCICGTCCTTAAGAAGTCAGTTAAATATGTTTTC
ATAGTTTATATTCCTGTTTCATAGATTACTGTGAAACATGTATTTAAACCTATGAATTATAAAATAGTATTTAGA
TTCTAGCGTGAGTTAAATAGATTAGTCATATATCTTTTAGATTTGIGGATTTGACATGTAAATTATGTGTTGTGT
ATAAGTAAAGTTAGTTACTAAACATATGGCATGGTTATTGATAAACTTGTTGCTATTTTTTTCCAAATGCTATCAG
TGTTTGTGGACTTTTAAAAATTAGTTTGAATTTTGAATGTTCTGTGATAAAATGTAATTTCAACTATTTTGTAC
ATTTAAATATGCCATGTTGTATATGTCTGTATTTAAAAATGTTGTAAATACCTGCATTTTAAGAATTATGAAAGA
TTTTCTCAAAAATGACAGAACTCTCCATACTTAATTGTGACACATTATAAGATATCTGATTTTAAGCTTTTGGA
TTTTGTTCTAAAAATTAAGTTTAAACATGCTGAAAATTCCATAAAAATAAAATTTTGAAAATAAA

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FIGURE 252

MHETNQGEFITSDSQEALFSKSSRGCLQNEKQDETLSSSEITLWTEKQSNQDKKSIELNDQKFNELIKNCNKHDG
RGIIVDARQLPSPEPCEIQKNLNDNEMLFHSCQMVEESHEEEELKPPEQEIEIDRNIIQEEKQAIPEFFEGRQA
KTPERYLKIRNYILDQWEICKPKYLNKTSVRPGLKNCQDVNCIGRIHTYLELIGAINFGCEQAVYNRPQTVDKVR
IRDRKDAVEAYQLAQRQLQSMRTRRRRVDRDPWGNWCDAKDLEGQTFEHLSAEELAKRREEEKGRPVKSLKVPRPTK
SSFDPFQLIPCNEFFSEEKQEPFQVKVASEALLIMDLHAHVSMAEVIGLLGGRYSEVDKVVEVCAAEP CNSLSTGL
QCEMDPVSQTQASETLAVRGFSVIGWYHSHPAFDPNPSLRDIDTQAKYQSYFSRGGAKFIGMIVSPYNRNPLPY
SQITCLVISEEISPDGSYRLPYKFEVQOMLEEPQWGLVFETRWIIEKYRLSHSSVPMDKIFRRDSDLTCLQKLL
ECMRKTL SKVTNCFMAEEFLTEIENLFLSNYKSNQENGVTENCTKELLM

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FIGURE 253

CTCTCTCTGGTCCGTGCCTCCAAGATGACAAAGAAAAGAAGGAACAATGGTCGTGCCAAAAAGGGCCGCGGCCAC
GTGCAGCCTATTCGCTGCTACTAAGTGTGCCCCGATGCGTGCCCAAGGACAAGGCCATTAAAGACATTCGTCAATTCGA
AACATAGTGAAGGCCGAGCAGTCAGGGACATTTCTGAAGCGAGCGTCTTCGATGCCTATGTGCTTCCCAAGCTG
TATGTGAAGCTACATTACTGTGTGAGTTGTGCAATTCACAGCAAAGTAGTCAGGAATCGATCTCGTGAAGCCCGC
AAGGACCGAACACCCCATCCCGATTTAGACCTGCGGGTGCTGCCCCACGTCCCCACCAAAGCCCATGTAAGGA
GCTGAGTTCCTTAAAGACTGAAGACAGGCTATTCTCTGGAGAAAAATAAAATGGAAATTGTACTT

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FIGURE 254A

ATGGCACAAACCGGGCAAATGCTCTGAAAAACGGATAAAATAAAATGCTGGTCACAGATGAGAACATCAGTCTAGCA
GAGCTTGCGAAGGCAGCAGGGAGGAGAAAAACCTCTGAGCTGTGTTTTGCCAGTGTCCACAGAGGGTTAGGAGGA
CCCAATGAAGGAATGACCCTGAAATGTGAACAGGGCGAAGAACTAGGCCCCAGCTCCCTGCAGAGAAGATACATC
AAAGCCCCACATGAGGATTTTTATAGCTCCACATTGGACAAGCTTCCTCTTCCTGAGATAGAGCCTACAGGGAAG
GGACAGATTTGGGGCAAGGAGAGGAGTCTGAAAGAGATGGGGTACGCCGTAGTGAAGCTGGAGTGAGAGCCTTC
GTATTGCAAGGCGGGGACTCGGGCGCTGTTGGCAGCTGGCGACGCGGGGCGAAGCCGCGGCTGGCGGCGCCTGGC
CAGTCCCGCATCCGCGCGTGCACCCGGAGGTTGCGTGCGCTCCGAAGCCGGGGTGTGCGCCTAGCTGCCCCGCG
CCCGTGACCCGCGGGCCGCCTCGCGCAGGACTTCGCGCAGCTCGCCAAGCCTGGGGTCTGCGACAGAAAAGGAGCG
GGGCTGCTCGGGCTGCCCAAAGGGTCATGGFTATTAAGGAAGAAAAACAGAATGGGCCCTTGTATGGACTCTAT
TACCAAGTGCCATTGGACACGCAGGCAGTGTACTGGGAGACAGTCTGTTGTGCTCAGAGGTATTGCCACGGCCT
GAAGTTCTCTCTTGGCCGAGCTGCCCCACTCTGCTGCAATCTTCTGGGGAGGGCTTCACTGCCACTGCCTC
CTGCATGCCAGCATCGCCTGCTGCAGACTGCAGAGCTGGGGTGCCAAAGACCAGTCTCTCAGGGGATGAAGAG
AAAGACCCTCCGAAGAGCCACCCTTATTCTGTGGAGACCCCATATGGCTTTCATTTAGACCTGGACTTCCTCAAG
TATGTGGATGACATCGAGAAGGGAAACACTATCAAAGAATTCTATCCACAGAAGGGCCAAGCAGGCCAAATTT
AGCACTCTGCCCCGAAACTTCAGCCTTCTGACAGTGGGGCTCGCCCCCTGCAGCCCCGCCCCCTCCAAACTGG
TCTCCCGTGGTGCCAAGGGAGGCATCACTTGGGACACAGGAGCAAAACCAGTCACCACCGCTTGGTAATGCCCCC
CAGGCCTCAACAAGCAGGAGTGAGGTGAGCTACCACAGGAAGGCTCTGTTGGCAGAGGCCACCAGACAGTTGGAA
GCTGCTGAGCCAGAGGATGCCGAGCTCACTTTTGGGAGTGGACGGCCCCAGCTCTTGAGAGCATCCAGCATGCCT
GCCACGCTGCTGCACAGCAGGGCTTCTGAGGAGCCAGGCCTGAGCCTGGGGCCCCCTGCCCTCTCTGCCCTCCCT
CCCCCTCAGGGTGAAGGCAGTGTCTGTGATGGCACCTTTGAACCTGCAGAAGGATTGGCAGGTTTCCACAGCTCC
AGCCACAGCATCAACTCGGATTCCAGAGCTGGTCCAGGAGGGAGCTGAGCCTCCAGAGGGTGTGGTGAAGGTT
CCAAATCACCTCCCTCTCCAGGCCCTCCTTTCTCATTCCAGAATGTGCTTGTAGTTCTAGAGGACAAGGAAGAT
GAACACAATGCCAGAGAAGCAGAGGTGTTGTTTACCCCTGGCTCCCTACGCCAAGCCCGCCACCTCTGCCATCA
CCCATCCCTGAGAATGAGCTCTCTCTGGAAGAAATCGAGCTCAACATCAGCGAGATTCCACCCCGCCACCTGT
GAGGTGGACATGAGAAGCATTGGCATCAGGGTAACTGAGGAAAGCCTGGGCCTTGCCAGGGTGGATCCAGGCAGC
ATCTCCAGCCTGAACAGCAGGTCTCGGCCCTGGAGGGAGAGTTGTCTGGAAGAACCAGGAACCTGGCACAGGTC
AGAAGTGTCTCCAGCAGCAGGAAGAGGAAATCAAAGCTAGGGAGCAAAGAATTCGAGAGCTGGAGTTCACTGTA
GCCAACTGGAAGGACAGTTTACCAAGAGAACGCCAAAGACACTCAGGGCCAGACGGACGTGATGGTGAACACT
GACCTGTCCATGGACTCTTGACCAGGGAGTCTGTGATAAGGGCATTGAAGTCAACCTTCTAGGCAGCATGGAG
TCTGAAAGCTGGGGGCACCGAGGAGAGGAGAATGGCCTCCTATGGGGGCCAGATGGTCAATAACAAGGGAATCAG
AGCCACAGCAAACGTGTGCTTCTGCCCCAGCTGTCACTGCCACAGGGACCCGAGCAGGTCTTACCTCCTCTGTA
CATAGCTTCTCTCCACTGAACTCAGGATTGAAGAAGCAGGCACTGAACAGGAAGGAGGCCCTCAGGGAGGAACC
AGGGGAGCAGGAGGCTTTCTGTGGGGCAGCGACAGAAAGACTCCCCAGCAGGGAGGGAGGAGACCAGTTCCAAT
CTCCAGGGAAGGAGCACCCGGGAAGGCCACCAAGCTCGCCAACGGATGCCACTATTGGGCAGTATGTGAAGAAG
ATCCAGGAGCTCCTGCAGGAGCAGTGGAAGTGCCTGGAGCATGGGTACCCGGAGCTGGCCAGCGCCATCAAGCAG
CCAGCCTCCAAGCTCAGCAGCATCCAGAGCCAGCTGCTGAGCTCCCTCAACCTGCTGTGTCGGCCTACTCGGCC
CAGGCTCACCCACCCAAGGAGCCACCGGCCTCCTCCTCCTCCCCAGTGGAGATCTCCCCATCGACCAGCCTT
AAATCCATAATGAAAAAGAAAGACTATGGCTTCCGTGCAGGAGGTATGGGACCAAAAAGAACCTTCAGTTGT
GGGGTTAACGTTGGGTATGAGACCACCTCAAGTGAGGAGACCAGCGGTGAGGACAGCACCCAGAGGACTTGTCT
GACAGCGAGGCAGAGAAGAAGTGTGACGGCCAGATCACAAGCATGTCAAAGATGCCATCTCACCTGCGAGGCT
GGGCAGGGCATCCCTGAGGGCACCTGCCATGCTGCCAGGAAAGTGGGCCTGGGGAAAGAAGTCCCCACTCCAAG
GCCGAGAGCCGGAAGTCGTCTAGCCCCGCCGTGGTGGCCTCTACCTCCACGAGGTCCAGCCTCACTCCCCACAC
TTCCTGAAACTGCTTGTCAACTTGGCCGATCACAACGGGAACACGGCCCTTCACTACAGCGTGTCCACTCCAAC
TTCTCCATCGTGAAGCTGCTGTGGAGACAGGCGTCTGCAATGTGGACCATCAGAACAAAGCTGGCTACACTGCC
GTAATGATCACTCCCTTGGCTTCCGACAGAGACCAATGAAGACATGGCTGTTGTCTGGAAGCTCTTAAGAGAAGGA
AATGTGAACATTCAGCTACTCAGGGAGGCCAGACTGCGCTGATGCTGGGAGTCAGCCACGACAGGGAGGACATG
GTTCAAGCGCTGCTTAGCTGCCAGGCAGATGTCAATCTGCAGGACCACGATGGATCCTCGGCCCTCATGTTGGCC
TGTACCATGGCAACGTGGACCTGGTGGCGCTGCTCCTGGCACACCCAGCCTGCGACAGCAGCCTGACTGACAAG

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FIGURE 254B

GCTGGCCGCACAGCTTTGTCCATCGCTCTGAAGTCACCCACCCATATGGAAATTGCTGGGCTTCTGAGAGCCCAC
GCGGAGCAGGGCAGGTCCCTGGGGCTGTAG

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FIGURE 255

MASVQEVMGPKRTFSLLGLTVGMRPPQVRRPAVRTAPQRTCLTARQRRSVTAQITSMKMPISPARLGRASLRAP
AMLPRKVGLGKKSPTRPRDINPQKNFLMHAGH

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FIGURE 256A

GCGGCGGCCGCGGAGTATCCTGGAGCTGCAGACAGTGCGGGCTGCGCCCAGTCCCGGCTGTCTCGCCGCGACC
CCTCCTCAGCCCTGGGCGCGCGCACGCTGGGGCCCCGCGGGGCTGGCCGCCTAGCGAGCCTGCCGGTCGACCCCA
GCCAGCGCAGCGACGGGGCGCTGCCTGGCCCAGGCGCACACGGAAGTGCCTTCTCTGAAGTAGCTTTGGAAAGT
AGAGAAGAAAATCCAGTTTGTCTTCTGGAGAACACTGGACAGCTGAATAAATGCAGTATCTAAATATAAAGAGG
ACTGCAATGCCATGGCTTTCTGTGCTAAAATGAGGAGCTCCAAGAAGACTGAGGTGAACCTGGAGGCCCCCTGAGC
CAGGGGTGGAAGTGATCTTCTATCTGTCTGGACAGGGAGCCCCCTCCGGCTGGGCAGTGGAGAGTACACAGCAGAGG
AACTGTGCATCAGGGCTGCACAGGCATGCCGTATCTCTCTCTTTGTCAACCTCTTTGCCCTGTATGACGAGA
ACACCAAGCTCTGGTATGCTCCAAATCGCACCATCACCGTTGATGACAAGATGTCCCTCCGGCTCCACTACCGGA
TGAGGTTCTATTTACCAATTGGCATGGAACCAACGACAATGAGCAGTCAGTGTGGCGTCATTCTCCAAAGAAGC
AGAAAAATGGCTACGAGAAAAAAGATTCCAGATGCAACCCCTCTCCTTGATGCCAGCTCACTGGAGTATCTGT
TTGCTCAGGGACAGTATGATTTGGTGAAATGCCTGGCTCCTATTTCGAGACCCCAAGACCGAGCAGGATGGACATG
ATATTGAGAACGAGTGTCTAGGGATGGCTGTCTGGCCATCTCACACTATGCCATGATGAAGAAGATGCAGTTGC
CAGAACTGCCCCAAGGACATCAGCTACAAGCGATATATTCCAGAAACATTGAATAAGTCCATCAGACAGAGGAACC
TTCTCACCAGGATGCGGATAAATAATGTTTTCAAGGATTTCTTAAAGGAATTTAACAACAAGACCATTGTGTGACA
GCAGCGTGTCCACGCATGACCTGAAGGTGAAATACTTGGCTACCTTGGAACCTTTGACAAAACATTACGGTGCTG
AAATATTTGAGACTTCCATGTTACTGATTTTCATCAGAAAATGAGATGAATTGGTTTCATTGCAATGACGGTGGA
ACGTTCTCTACTACGAAGTGATGGTGACTGGGAATCTTGAATCCAGTGGAGGCATAAACCAAATGTTGTTCTG
TTGAAAAGGAAAAAATAAAGTGAAGCGGAAAAAAGTGGAAAATAACACAAGAAGGATGAGGAGAAAAACAAGA
TCCGGGAAGAGTGAACAATTTTTCTTACTTCCCTGAAATCACTCACATTGTAATAAAGGAGTCTGTGGTCAGCA
TTAACAAGCAGGACAACAAGAAATGGAAGTGAAGCTCTCTTCCACGAGGAGGCCTTGTCTTGTGTCCCTGG
TAGATGGCTACTTCCGGCTCACAGCAGATGCCCATCATTACCTCTGCACCGACGTTGGCCCCCGTTGATCGTCC
ACAACATACAGAATGGCTGTATGGTCCAATCTGTACAGAATACGCCATCAATAAATTGCGGCAAGAAGGAAGCG
AGGAGGGGATGTACGTGCTGAGGTGGAGCTGCACCGACTTTGACAACATCCTCATGACCGTCACCTGCTTTGAGA
AGTCTGAGCAGGTGCAGGGTGGCCAGAAGCAGTTCAAGAACTTTGAGATCGAGGTGCAGAAGGGCCGCTACAGTC
TGCACGGTTCCGACCGCAGCTTCCCCAGCTTGGGAGACCTCATGAGCCACCTCAAGAAGCAGATCCTGCGCACGG
ATAACATCAGCTTCATGCTAAAACGCTGCTGCCAGCCCAAGCCCCGAGAAATCTCCAACCTGCTGGTGGCTACTA
AGAAAGCCCAGGAGTGGCAGCCCGTCTACCCCATGAGCCAGCTGAGTTTCGATCGGATCCTCAAGAAGGATCTGG
TGCAGGGCGAGCACCTTGGGAGAGGCACGAGAACACACATCTATTCTGGGACCTGATGGATTACAAGGATGACG
AAGGAACCTTGAAGAGAAGAAGATAAAGTGATCCTCAAAGTCTTAGACCCAGCCACAGGGATATTTCCCTGG
CCTTCTTCGAGGCAGCCAGCATGATGAGACAGGTCTCCACAAACACATCGTGTACCTCTATGGCGTCTGTGTCC
GCGACGTGGAGAATATCATGGTGAAGAGTTTGTGGAAGGGGTCCTCTGGATCTCTTCATGCACCGGAAAAAGCG
ATGTCCTTACCACACCATGGAATTCAAAGTTGCCAAACAGCTGGCCAGTGCCCTGAGCTACTTGGAGGATAAAG
ACCTGGTCCATGGAATGTGTGTACTAAAACTCCTCCTGGCCCGTGAGGGCATCGACAGTGAGTGTGGCCCAT
TCATCAAGCTCAGTGACCCCGGCATCCCCATTACGGTGTGTCTAGGCAAGAAATGCATTGAACGAATCCCATGGA
TTGCTCCTGAGTGTGTTGAGGACTCCAAGAACCTGAGTGTGGCTGTGACAAGTGGAGCTTTGGAACCACGCTCT
GGGAAATCTGCTACAATGGCGAGATCCCCCTGAAAGACAAGACGCTGATTGAGAAAGAGAGATTCTATGAAAGCC
GGTGCAGGCCAGTGACACCATCATGTAAGGAGCTGGCTGACCTCATGACCCGCTGCATGAACATGACCCCAATC
AGAGGCCTTTCTCCGAGCCATCATGAGAGACATTAATAAGCTTGAAGAGCAGAATCCAGATATTGTTTCAGAAA
AAAAACCAGCAACTGAAGTGGACCCACACATTTTGAAGCGCTTCTTAAAGAGGATCCGTGACTTGGGAGAGG
GCCACTTTGGGAAGGTTGAGCTCTGCAGGTATGACCCGAAGGGGACAATACAGGGGAGCAGGTGGCTGTAAAT
CTCTGAAGCTGAGAGTGGAGGTAACCACATAGCTGATCTGAAAAAGGAAATCGAGATCTTAAGGCTCATGGAATTC
ATGAGAACATTGTGAAGTACAAAGGAATCTGCACAGAAGACGGAGGAAATGGTATTAAGCTCATGGAATTC
TGCTTTCGGGAAGCCTTAAGGAATATCTTCCAAGAATAAGAACAAAATAAACCCTCAACAGCAGCTAAAAATG
CCGTTTCAGATTGTGAAGGGATGGACTATTTGGGTCTCGGCAATACGTTTACCAGGGACTTGGCAGCAAGAAATG
TCCTTGTGAGAGTGAACACCAAGTGAAATTTGGAGACTTCGGTTTAAACCAAGCAATTGAAACCGATAAGGAGT
ATTACACCGTCAAGGATGACCGGGACAGCCCTGTGTTTTGGTATGTCCAGAATGTTTAATGCAATCTAAATTTT
ATATTGCCCTCTGACGCTGTGCTTTTGGAGTCACTCTGCATGAGCTGCTGACTTACTGTGATTGAGATTCTAGTC
CCATGGCTTTGTTCTGAAATGATAGGCCCAACCCATGGCCAGATGACAGTCACAAGACTTGTGAATACGTTAA

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FIGURE 256B

AAGAAGGAAAACGCCTGCCGTGCCACCTAACTGTCCAGATGAGGTTTATCAACTTATGAGGAAATGCTGGGAAT
TCCAACCATCCAATCGGACAAGCTTTCAGAACCTTATTGAAGGATTTGAAGCACTTTTAAAAATAAGAAGCATGAA
TAACATTTAAATTCCACAGATTATCAAGTCCTTCTCCTGCAACAAATGCCAAGTCATTTTTTAAAAATTTCTAA
TGAAAGAAGTTTGTGTTCTGTCCAAAAAGTCACTGAACTCATACTTCAGTACATATACATGTATAAGGCACACTG
TAGTGCTTAATATGTGTAAGGACTTCCTCTTTAAATTTGGTACCAGTAACTTAGTGACACATAATGACAACCAAA
ATATTTGAAAGCACTTAAGCACTCCTCCTTGTGGAAGAATATACCACCATTTCATCTGGCTAGTTTACCATCAC
AACTGCATTACCAAAAGGGGATTTTTGAAAACGAGGAGTTGACCAAAATAATATCTGAAGATGATTGCTTTTCCC
TGCTGCCAGCTGATCTGAAATGTTTTGCTGGCACATTAATCATAGATAAAGAAAGATTGATGGACTTAGCCCTCA
AATTTAGTATCTATACAGTACTAGACCATGCATTCTTAAAATATTAGATACCAGGTAGTATATATTGTTTCTGT
ACAAAAATGACTGTATTCTCTCACCAGTAGGACTTAACTTTGTTTCTCCAGTGGCTTAGCTCCTGTTCTTTGG
GTGATCACTAGCACCCATTTTTGAGAAAGCTGGTTCTACATGGGGGATAGCTGTGGAATAGATAATTTGCTGCA
TGTTAATTCTCAAGAACTAAGCCTGTGCCAGTGCTTTCTAAGCAGTATACCTTTAATCAGAACTCATTCCCAGA
ACCTGGATGCTATTACACATGCTTTTAAGAAACGTCAATGTATATCCTTTTATAACTCTACCACCTTTGGGGCAAG
CTATTCCAGCACTGGTTTTGAATGCTGTATGCAACCACTCTGAATACCACATACGCTGCACGTGTTCTTAGAGGGT
TTCCATACTTACCACCGATCTACAAGGGTTGATCCCTGTTTTTACCATCAATCATCACCCCTGTGGTGCAACACTT
GAAAGACCCGGCTAGAGGCACTATGGACTTCAGGATCCACTAGACAGTTTTTCAGTTTGCTTGAGGGTAGCTGGGT
AATCAAAAATGTTTAGTCATTGATTCAATGTGAACGATTACGGTCTTTATGACCAAGAGTCTGAAAATCTTTTTG
TTATGCTGTTTAGTATTCGTTTGATATTGTTACTTTTACCTGTTGAGCCCAAATTCAGGATTGTTTCACTGGCA
GCAATGAAGTTGCCATTTAAATTTGTTTATAGCCTACATCACCAAGGTCTCTGTGTCAAACCTGTGGCCACTCTA
TATGCACTTTGTTTACTCTTTATACAAATAAATATACTAAAGACTTT

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FIGURE 257

CTCTTCATAAGCCGGCGCTCGGCGAGTTCTCCCAGGAGAAGGCCATGTCAGTTCGAGCGCCAAGATCGTGAAAC
CCAACGGCGAGAAGCCGGAGGAGTTCGAGTCCGGCATCTCCCAGGCTCTTCTGGAGCTGGAGATGAACTCAGAAC
TCAAGGCTCAGCTCAGAGAGCTGAATATTACGGCAGCCAAGGAAATTGAAGTTGGTGGTGGTCGGAAAGCTATCA
TAATACTTGTTCCCGTTACTCAACTGAAATCTTTCCAGAAAATCCAAATCCGGCTAGTAAGTGAATTGGAGAAAA
AGTTCAGTGGGAAGCATGTCGTCTTTATCGCTCAGAGGAGAATTCTGCCTAAGCCAACTCGAAAAAGCTGTACAA
AAAATAAGCAAAAGCGTCCCAGGAGCAGCACTGTGACAGCTGTGCACGATGCCATCCTTGAGGACTTGGTCTTCC
CAAGTGAAATTGTGGGCAAGAAAATCCGCGTCAAACCTAGATGGCAGCCGGCTCATAAAGGTTCAATTTGGACAAAG
CACAAACAGAACAATGTGGAACACAAGGTTGAAACTTTTTCTGGTGTCTATAAGAAGCTCATGGGCAAGGATGTTA
ATTGTGAATTCCCAGAGTTTCAATAGTAAACAAAAATGACTAAATAAAAAATATATATATTCATAGT

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FIGURE 258

MFSSSAKIVKPNGEKPEEFESGISQALLELEMNSELKAQLRELNITAAKEIEVGGGRKAI IILVPVTQLKSFQKI
QIRLVSELEKKFSGKHVVFIAQRRILPKPTRKSCSTKNQKRPRSSTVTAVHDAILEDLVFPSEIVGKKIRVKLDG
SRLIKVHLDKAQQNNVEHKVETFSGVYKKLMGKDVNCEFPEFQS

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FIGURE 259

GGAGAAGGCCATGTTTCAGTTCGAGCGCCAAGATCGTGAAACCCAACGGCGAGAAGCCGGAGGAGTTCGAGTCCGG
CATCTCCCAGGAAATGAAGTTGGTGGTGGTCGGAAAGCTATCATAATACTTGTTCCCGTTACTCAACTGAAATC
TTTCCAGAAAATCCAAATCCGGCTAGTAAGTGAATTGGAGAAAAGTTCAGTGGGAAGCATGTCGTCTTTATCGC
TCAGAGGAGAATTCTGCCTAAGCCAACTCGAAAAAGCTGTACAAAAAATAAGCAAAAGCGTCCCAGGAGCAGCAC
TGTGACAGCTGTGCACGATGCCATCCTTGAGGACTTGGTCTTCCCAAGTGAAATTGTGGGCAAGAAAATCCGCGT
CAAAC TAGATGGCAGCCGGCTCATAAAGGTTCAATTTGGACAAAGCACACAGAACAATGTGGAACACAAGGTTGA
AACTTTTTCTGGTGTCTATAAGAAGCTCATGGCAAGGATGTTAATTGTGAATCCCAGAGTTTCAATAGTAAAC
AAAAATGACTAAATAAAAAATATATATATTCATAGTAAAAAAAAAAAAAAAAAATCTC

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FIGURE 260

GGGGGTGGGAAGAGCTGAAGCAGGCGCTCTTGGCTCGGCGCGGCCCGCTGCAATCCGTGGAGGAACGCGCCGCCG
AGCCACCATCATGCTTGGGCACCTTACAGGAAGGCTTCGGCTGCGTGGTCACCAACCGATTTCGACCAGTTATTTGA
CGACGAATCGGACCCCTTCGAGGTGCTGAAGGCAGCAGAGAACAAGAAAAAGAACCCGGCGGGGGCGGCGTTGG
GGGCCCTGGGGCCAAAGAGCGCAGCTCAGGCCGCGGCCAGACCAACTCCAACGCGGCAGGCAACAGCTGCGCAA
GGAGTCCCAGAAAGACCGCAAGAACCCGCTGCCCCCAGCGTTGGCGTGGTTGACAAGAAAGAGGAGACGCAGCC
GCCCCTGGCGCTTAAGAAAGAAGGAATAAGACGAGTTGAAGAAGACCTGATCAACAACCTTCAGGGTGAAGGGAA
AATAATTGATAGAAGACCAGAAAGGCGACCACCTCGTGAACGAAGATTGAAAAGCCACTTGAAGAAAAGGGTGA
AGGAGGCGAATTTTCAGTTGATAGACCGATTATTGACCGACCTATTTCAGGTGCTGGTGGTCTTGGAAGAGGTCG
AGGGGGCCGTGGACGTGGAATGGGCCGAGGAGATGGATTGATTCTCGTGGCAAACGTGAATTTGATAGGCATAG
TGGAAGTGATAGATCTGGCCTGAAGCACGAGGACAAACGTGGAGGTAGCGGATCTCACAACTGGGGAACTGTCAA
AGACGAATTAAGTACTTGGATCAATCAAATGTGACTGAGGAAACACCTGAAGGTGAAGAACATCATCCAGTGGC
AGACACTGAAAATAAGGAGAATGAAGTTGAAGAGGTAAAGAGGAGGGTCCAAAAGAGATGACTTTGGATGAGTG
GAAGGCTATTCAAAATAAGGACCGGGCAAAAGTAGAATTTAATATCCGAAAACCAAATGAAGGTGCTGATGGGCA
GTGGAAGAAGGGATTGTCTTTCATAAATCAAAGAGTGAAGAGGCTCATGCTGAAGATTGCGTTATGGACCATCA
TTTCCGGAAGCCAGCAAATGATATAACGTCTCAGCTGGAGATCAATTTGGAGACCTTGGCCGCCAGGACGTGG
CGGCAGGGGAGGACGAGGTGGACGTGGCGTGGTGGGCGCCCAAACCGTGGCAGCAGGACCGACAAGTCAAGTGC
TTCTGCTCCTGATGTGGATGACCCAGAGGCATTCCCAGCTCTGGCTTAAGTGGATGCCATAAGACAACCCCTGGTT
CCTTTGTGAACCCCTTCTGTTCAAAGCTTTTGCATGCTTAAGGATTCCAAACGACTAAGAAATTAATAAAAAAAG
ACTGTCATTTCATACCATTACACCTAAAGACTGAATTTTATCTGTTTTAAAAATGAACCTCTCCCCTACACAGA
AGTAACAAATATGGTAGTCAGTTTTGTATTTAGAAATGTATTGGTAGCAGGGATGTTTTTCATAATTTTCAGAGAT
TATGCATTCTTCATGAATACTTTTGTATGCTGCTTGCAAATATGCATTTCCAAACCTTGAATATAGGTGTGAAC
AGTGTGTACAGTTTAAAGCTTTCACCTTCATTTGTGTTTTTAATTAAGGACTTAGAAGTTCCCCCAATTACAAA
CTGGTTTTAAATATTGGACATACTGGTTTTAATACCTGCTTTCATATTACACATGGTCAACTGGGACATGTTA
AACTTTGATTTGTCAAATTTTATGCTGTGTGGAATACTAATATATGTATTTAACTTAGTTTTAATATTTTCAT
TTGGGGGAAAAATCTTTTTTCACTTCTCATGATAGCTGTTATATATATATGCTAAATCTTTATATACAGAAATA
TCAGTACTTGAACAAATTCAAAGCACATTTGGTTTATTAACCCCTTGCTCCTTGCTGCTCATTAGGTTCAAATT
ATAACTAATTTACATTTTCAGCTATATTTACTTTTTAAATGCTTGAGTTCCCATTTTAAATCTAAACTAGACA
TCTTAATTGGTGAAAGTTGTTTAACTACTTATTGTTGGTAGGCACATCGTGTCAAGTGAAGTAGTTTTATAGGT
ATGGGTTTTTTTCTCCCCCTTACCAGGGTGGGTGGAATAAGTTGATTGGCCAATGTGTAATATTTAACTGTTT
TGTAATAATAAAAAAAAAAAAAAAAAA

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FIGURE 261

MPGHLQEGFGCVVTNRFDQLFDDSDPFEVLKAAENKKKEAGGGVGGPGAKSAAQAAAQTNSNAAGKQLRKESQ
KDRKNPLPPSVGVVDKKEETQPPVALKKEGIRRVGRRPDQQLQEGEKIIDRRPERRPPRERRFEKPLEEKEGEGGE
FSVDRPIIDRPIRGRGGLGRGRGGRGRGMGRGDGFSRGKREFDRHSGSDRSLKHEDKRGGSGSHNWGTVKDEL
TDLDQSNVTEETPEGEEHHPVADTENKENEVEEVKEEGPKEMTLDEWKAIQNKDRAKVEFNIRKPNEGADGQWKK
GFVLHKSKEEAHAEDSVMDHHRKPANDITSQLEINFGLGRPGRGGRGGRGGRGGRPNRGSRTDKSSASAP
DVDDPEAFPALA

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FIGURE 262

ACCTTTAAGCGTCACGGGTGGGGCTGCAGCTTCTGGACCTAGGACTTTGAACATGTCGCGCCTGAAGCGGATAGC
GGGGCAGGATCTCCGCGCTGGTTTCAAAGCAGGTGGAAGAGACTGCGGTACCTCGGTACCCCAAGGGCTGTTGAA
GGCAGCGAGGAAGAGCGGCCAGTTAAACCTGTCGGGTAGAAACCTCAGTGAAGTGCCGCGAGTGTGTCTGGAGAAT
AAATGTGGATATCCCTGAGGAAGCTAATCAGAATCTTTCGTTTGGTGCTACTGAAAGATGGTGGGAGCAGACAGA
TTTGACCAAACATAATAATATCAAACAATAAACTTCAGTCACTTACAGATGACCTGCGACTCTTGCCTGCACTGAC
TGTTCTTGATATACATGATAATCAGTTGACATCCCTTCCTTCTGCTATAAGAGAGCTAGAAAATCTTCAGAAACT
TAATGTCAGCCATAATAAACTGAAAATACTCCCTGAAGAAATTACAAACCTAAGAAACCTGAAGTGCCTGTATCT
CCAGCATAATGAATTAACCTGCATATCAGAGGGATTGAACAACCTTCCAATTTAGAAGATTTAGATCTTTCAA
CAATCATCTTACAACCTGTTCCCTGCTAGTTTTCTTCTCTGTCCAGTCTGGTGCGACTCAATCTTTCTAGTAATGA
ACTGAAGAGTTTGCCAGCAGAAATAAATAGAATGAAAAGGTTGAAGCATTGGATTGTAATTCAAATCTCTTGGA
AACTATACCTCCTGAATTGGCTGGCATGGAATCACTAGAATTGCTTTATTTGCGGAGGAATAAATTACGTTTTCT
ACCAGAATTTCTTCTTGTAGTCTATTGAAGGAATTGCACGTAGGTGAAAACAGATTGAAATGTTAGAGGCAGA
ACATCTTAAACATCTGAATTCAATCTTGTGCTAGACCTGAGGGATAACAAGTTAAATCTGTTCCAGATGAAAT
TATACTACTACGGTCCTTGGAAGGGCTTGACCTAAGCAACAATGATATTAGTAGTCTTCCCTATTCTTGGGGAA
CCTTCATTTGAAATTTTGGCATTAGAAGGAAATCCTTTGAGAACAATTCGAAGAGAAATTATAAGTAAAGGAAC
ACAAGAAGTCCTAAATATCTACGAAGCAAGATCAAAGATGATGGACCTAGCCAAAGTGAGTCTGCTACTGAGAC
TGCCATGACACTACCAAGTGAATCCAGAGTCAATATACATGCCATCATTACATTAAAAATATTAGACTATAGTGA
TAAACAAGCAACTTTGATTCTGTAGAGGTGTTTGATGCAGTAAAAAGCAACATCGTCACTTCTATTAACTTCAG
TAAGAATCAACTATGTGAAATTCAAAAAGGATGGTAGAACTGAAGGAAATGGTTTCTGATGTCGATCTCAGTTT
TAATAAACTTTTCTTTATATCCTTGGAGTTATGTGTGCTTCAGAAATTGACTTTTTTAGATCTCAGGAACAATTT
TTTAAATTTCTTGCCAGAAGAAATGGAATCACTGGTAAGACTGCAAACGATCAATCTTTCCTTTAATAGGTTTAA
AATGCTACCTGAAGTTCTATATCGTATCTTCACACTGAAACAATCTGATTAGTAATAATCAGGTTGGATCTGT
GGACCTCAGAAAATGAAGATGATGGAATCTGACCACGTTGGACCTTCAAATAATGACCTCTTACAAATTC
ACCAGAGCTCGGTAATTGTGTAACTTAAGAACATTACTATTGGATGGAATCCATTCCGAGTTCCTCGAGCAGC
CATATTAATGAAAGGAACAGCTGCTATACTTGAATTTGAGAGACCGAATTCCTACTTAACATGGAGTTGCTTT
ATAACCTTGTGATGATTATTAACCTGGTTAATTCTAAGGAGGATGTAACATTTGTTTTAGTATCATCTTAAA
AGGTGATTATGTAAATTGATCTTGTAGTTTCCAGTATCACCTACCGTTGGTATAATTAGCCTGGGCCATATTC
ACTGCCAGTAAATATTTTACATTTTATTTAAGATTTTGTAAAGGTGTTGTGTACATTTGTAATGGTGATAACC
ACAATGTGTTATACATTTTCTAAATGTTTTGTCTTATGATTTATCCTGCTAACCTTCATTTTCTTATAGCAAG
CAGTTTTTTCAAATAATGAATTTTTATTTAATGTGGTTCAGTATTATAATAACAAAGCATTTTTGTAGAAGTGGTT
TTTTTCTCATTTATTTTTGTATTCCATACAATGTGACCAATTGACTTGAATATGACTAGCCAGTTTCTATGTTT
TTGTTAGATATAAAATTAATCGAATTTTGTGTAATACTGTTCTTTGGCATTATAAAAAATAAGACCTTCTTATCT
TGGGCCACATGTCAAAGAAAAAGGAAACAAAAATATATAAAAAATAAGACTTTTCATTACCCATGATAGGACTT
TTGTGATATGGCTAATCTCAGTACACATTTCAACTTAAACCTTTTATTTACAGCACCATAATTTTAAATTTA
CTTGCAATCTTGGTAAGACTAAACTTGCAGTGTTTTCTAAAAGGGAATTTGATAGGTAAACTTGATTAAATAAA
AATTAATATCATTTTTGTTTACACCAAATTTACAGAAGTAGGTTGATTAGTCATTATAACACTTACCATATGA
TTCTATTAAGAAGTCAATTCAGTAGCATGTATATCAATTTATATAGATAGGTAGATAGCTTTTGGATGATTGAGG
CATGCTTATATTATGAAAAAATTGCTAATAAAGATAAATACTACATGTTTCAGAATAAAAGTTACATTTTTTC

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FIGURE 263

MSRLKRIAGQDLRAGFKAGGRDCGTSVPQGILLKAARKSGQNLNLSGRNLSEVPQCVWRINVDIPEEANQNLSFGAT
ERWWEQTDLTCLKLIISNNKLQSLTDDLRLLPALTVDIHDNQLTSLPSAIRELENLQKLNVSHNKLKILPEEITNL
RNLKCLYLQHNELTCESEGFEQLSNLEDLDLSNNHLTTVPASFSSSLVRLNLSSNELKSLPAEINRMKRLKHL
DCNSNLLLETIPPELAGMESLELLYLRRNKLRFLPEFPSCSLLKELHVGENQIEMLEAEHLKHLNSILVLDLRDNK
LKSVPEIILLRSLERLDLSNNDISSLPYSLGNLHLKFLALEGNPLRTIRREIISKGTQEVLYLRSKIKDDGPS
QSESATETAMTLPSES RVNIHAIITLKILDYSDKQATLIPDEVF DAVKSNIVTSINFSKNQLCEIPKRMVELKEM
VSDVDLSFNKLSFISLELCVLQKLTFLDLRNNFLNSLPEEMESLVRLOTINLSFNRFKMLPEVLYRIFTLETILI
SNNQVGSVDPQKMKMMENLTTLDLQNNDLLQIPPELGNCVNLRTLLLDGNPFRVPRAAILMKGTAAILEYLRDRI
PT

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FIGURE 264

GCTCTTTCCTAAGCAGCCTGAGGTAATCTGTGAAAATGGTTCGCTACTCACTTGACCCGGAGAACCCACGAAA
TCACTCGTGAAACTGCTCAGGCCATCAAGGGTATGCATATACAAAAGCCACGAAGTATCTGAAAGATGTCACCT
TACAGAAACAGTGTGTACCATTCCGACGTTACAATGGTGGAGTTGGCAGGTGTGCGCAGGCCAAGCAGTGGGGCT
GGACACAAGGTCGGTGGCCCAAAAAGAGTGCTGAATTTTGTGTCACATGCTTAAAAACACAGAGAGTAATGCTG
AACTTAAGGGTTTAGATGTAGATTCTCTGGTCATTGAGCATATCCAAGTGAACAAAGCACCTAAGATGCGCCGCC
GGACCTACAGAGCTCATGGTCGGATTAACCCATACATGAGCTCTCCCTGCCACATTGAGATGATCCTTACGGAAA
AGGAACAGATTGTTCTTAAACCAGAAGAGGAGGTTGCCAGAAGAAAAAGATATCCCAGAAGAACTGAAGAAAC
AAAAACTTATGGCACGGGAGTAAATTCAGCATTAAAAATAATGTAATTAAAAGGAAAAATAAAAAATAAAATAA
ATAAATAAATAAATAAAAAAAAAAAAAAAAAAAAAAG

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FIGURE 265

GCTCTTTCCCTAAGCAGCCTGAGGTAATCTGTGAAAATGGTTCGCTACTCACTTGACCCGGAGAACCCACGAAA
TCATGCAAATCAAGAGGTTCGAATCTTCGTGTTCACTTTAAGAACACTCGTGAACTGCTCAGGCCATCAAGGGT
ATGCATATACAAAAGCCACGAAGTATCTGAAAGATGTCACCTTACAGAAACAGTGTGTACCATTCCGACGTTAC
AATGGTGGAGTTGGCAGGTGTGCGCAGGCCAAGCAGTGGGGCTGGACACAAGGTCGGTGGCCCCAAAAGAGTGCT
GAATTTTGTCTGCACATGCTTAAAAACACAGAGAGTAATGCTGAACTTAAGGGTTTAGATGTAGATTCTCTGGTC
ATTGAGCATATCCAAGTGAACAAAGCACCTAAGATGCGCCGCCGGACCTACAGAGCTCATGGTCGGATTAAACCA
TACATGAGCTCTCCCTGCCACATTGAGATGATCCTTACGGAAAAGGAACAGATTGTTCTAAACCAGAAGAGGAG
GTTGCCCAGAAGAAAAGATATCCCAGAAGAACTGAAGAAACAAAACCTTATGGCACGGGAGTAAATTCAGCAT
TAAATAAATGTAATTAAAAGG

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FIGURE 266

MVRYSLDPENPTKSCSRSNLRVHFKNTRETAQAIGMYIQGTYLKDVTLQKQCIPFRHYNGGVGRCAQAKQ
WGWTQGRWPKKSAEFLHVLKNTESNAELKGRFSGH

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FIGURE 267

CGGGAAGGATTGAATACGAGACGCTGCTGCTTGCTGCCTTAAGACAGCTAGCTGAATTGCTGATTAACCTTTTAA
AATACCCAGCTTGGTTTATTTTTCTTAGAATCTGTTGCTAAGACTGGGGACGCTGTTTTCTTTTACAAAGGGAAA
TCTAAGTTAATTCAAGGCATTGCGAAATGCGGAAAGACTATTATTGCATTTTGGGAATTGAGAAAGGAGCTTCAG
ATGAAGATATTAAAAAGGCTTACCGAAAACAAGCCCTCAAATTTTCATCCGGACAAGAACAAATCTCCTCAGGCAG
AGGAAAAATTTAAAGAGGTCGCAGAAGCTTATGAAGTATTGAGTGATCCTAAAAAGAGAGAAATATATGATCAGT
TTGGGGAGGAAGGGTTGAAAGGAGGAGCAGGAGGTACTGATGGACAAGGAGGTACCTTCCGGTACACCTTTCATG
GCGATCCTCATGCTACATTTGCTGCATTTTTCGGAGGGTCCAACCCCTTTGAAATTTTCTTTGGAAGACGAATGG
GTGGTGGTAGAGATTCTGAAGAAATGGAATAGATGGTGATCCTTTTAGTGCTTTGGTTTCAGCATGAATGGAT
ATCCAAGAGACAGGAATTCTGTGGGGCCATCCCGCCTCAAACAAGATCCTCCAGTTATTCATGAACCTTAGAGTAT
CACTTGAAGAGATATATAGTGGTTGTACCAACGGATGAAGATTTCTCGAAAAAGGCTAAACGCTGATGGAAGGA
GTTACAGATCTGAGGACAAAATTCTTACCATTGAGATTAAAAAAGGGTGGAAAGAAGGCACCAAAATTACTTTTC
CAAGAGAAGGAGATGAAACACCAATAGTATTCCAGCAGACATTGTTTTATCATTAAAGACAAAGATCATCCAA
AATTTAAAAGGGATGGATCAAATATAATTTATACTGCTAAAATTAGTTTACGAGAGGCATTGTGTGGCTGCTCAA
TTAATGTACCAACACTGGATGGAAGAAACATACCTATGTCAGTAAATGATATTGTGAAACCCGGAATGAGGAGAA
GAATTATTGGATATGGGCTGCCATTTCCAAAAATCTGACCAACGTGGTGACCTTCTAATAGAATTTGAGGTGT
CCTTCCCAGATACTATATCTTCTTCATCCAAAGAAGTACTTAGGAAACATCTTCTGCCTCATAGAAATGAAGAAC
TTTGTTACACATATTTTGATAAGGCACTGAAAATATAAAAGGACTGGTAGTTTACTGATGTAGATGTGAATTCTG
TATAAAGATGTGTAAATTGTTTTGAGGGTTCATTAAATTGCAT

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FIGURE 268

MGKDYYCILGIEKGASDEDIKKAYRKQALKFHPDKNKSPQAEEKFKEVAEAYEVLSDPKKREIYDQFGEEGLKGG
AGGTDGQGGTFRYTFHGDPHATFAAFFGGSNPFIEFFGRRMGGGRDSEEMEIDGDPFSAFGFSMNGYPRDRNSVG
PSRLKQDPPVIHELVSLEEIYSGCTKRMKISRKRLNADGRSYRSEDKILTIEIKKGWKEGTKITFPREGDETPN
SIPADIVFIIKDKDHPKFKRDGSNIIYTAKISLREALCGCSINVPTLDGRNIPMSVNDIVKPGMRRRIIGYGLPF
PKNPDQRGDLLEFEVSFPDTISSSSKEVLRKHLPAS

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FIGURE 269

GCGCACGGCCTGTCCGCTGCACACCAGCTTGTTGGCGTCTTCGTGCGCCGCGCTCGCCCCGGGCTACTCCTGCGCG
CCACAATGAGCTCCCGCATCGCCAGGGCGCTCGCCTTAGTCGTACCCCTTCTCCACTTGACCAGGCTGGCGCTCT
CCACCTGCCCCGCTGCCTGCCACTGCCCCCTGGAGGCGCCCAAGTGCGCGCCGGGAGTCGGGCTGGTCCGGGACG
GCTGCGGCTGCTGTAAGGTCTGCGCCAAGCAGCTCAACGAGGACTGCAGCAAAACGCAGCCCTGCGACCACACCA
AGGGGCTGGAATGCAACTTCGGCGCCAGCTCCACCGCTCTGAAGGGGATCTGCAGAGCTCAGTCAGAGGGCAGAC
CCTGTGAATATAACTCCAGAATCTACCAAAACGGGGAAAGTTTCCAGCCCAACTGTAAACATCAGTCACATGTA
TTGATGGCGCCGTGGGCTGCATTCTCTGTGTCCCCAAGAACTATCTCTCCCAACTTGGGCTGTCCCAACCCCTC
GGCTGGTCAAAGTTACCGGGCAGTGCTGCGAGGAGTGGGTCTGTGACGAGGATAGTATCAAGGACCCCATGGAGG
ACCAGGACGGCCTCCTTGGTAAGGAGCTGGGATTTCGATGCCTCCGAGGTGGAGTTGACGAGAAACAATGAATTGA
TTGCAGTTGGAAGGCAGCTCACTGAAGCGGATCCCTGTTTTTGAATGGAGCCTCGCATCCGATACAACCCTT
TACAAGGCCAGAAATGTATTGTTCAAACAACCTTCATGGTCCAGTGCTCAAAGACCTGTGGAACTGGTATCTCCA
CACGAGTTACCAATGACAACCCTGAGTGCCGCCTTGTGAAAGAAACCCGGATTGTGAGGTGCGGCCTTGTGGAC
AGCCAGTGACAGCAGCCTGAAAAAGGGCAAGAAATGCAGCAAGACCAAGAAATCCCCGAACCAAGTCAGGTTTA
CTTACGCTGGATGTTTGAGTGTGAAGAAATACCGGCCCAAGTACTGCGGTTCCCTGCGTGGACGCGCGATGCTGCA
CGCCCCAGCTGACCAGGACTGTGAAGATGCGGTTCCGCTGCGAAGATGGGGAGACATTTTCCAAGAACGTCATGA
TGATCCAGTCCTGCAAAATGCAACTACAACCTGCCCCGATGCCAATGAAGCAGCGTTTCCCTTCTACAGGCTGTTCA
ATGACATTACAAATTTAGGGACTTAATGTCTACCTGGGTTTCCAGGGCACACCTAGACAAACAAGGGAGAAGAGT
GTCAGAATCAGAATCATGGAGAAATGGGCGGGGGTGGTGTGGGTGATGGGACTCATTGTAGAAAGGAAGCCTTG
CTCATTCTTGAGGAGCATTAAAGGTATTTGGAACCTGCCAAGGGTGCTGGTGCGGATGGACACTAATGCAGCCACG
ATTGGAGAATACTTTGCTTCATAGTATTGGAGCACATGTTACTGCTTCATTTTGGAGCTTGTGGAGTTGATGACT
TTCGTTTTTCGTTTGTAATTTATTTGCTAAGCATATTTTCTCTAGGCTTTTTTCCTTTTGGGGTTCTACAGTCG
TAAAGAGATAATAAGATTAGTTGGACAGTTTAAAGCTTTTATTGTCCTTTGACAAAAGTAAATGGGAGGGCAT
TCCATCCCTTCCCTGAAGGGGGACACTCCATGAGTGCTGTGAGAGGCAGCTATCTGCACTCTAAACTGCAAACAG
AAATCAGGTGTTTTAAGACTGAATGTTTTATTTATCAAAATGTAGCTTTTGGGGAGGGAGGGGAAATGTAATACT
GGAATAATTTGTAAATGATTTTAATTTTATATTAGTGAAAAGATTTTATTTATGGAATTAACCATTTAATAAG
AAATATTTACCT

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FIGURE 270

MSSRIARALALVVTLLHLTRLALSTCPAACHCPLEAPKCAPGVGLVRDGCCKVCAKQLNEDCSKTQPCDHTKG
LECNFGASSTALKGICRAQSEGRPCYEYNSRIYQNGESFQPNCKHQCTCIDGAVGCIPLCPQELSLPNLGCPNPRL
VKVTGQCCEEWVCDEDSIKDPMEDQDGLLGKELGFDASEVELTRNNELIAVGKGSSLKRIPVFGMEPRIRYNPLQ
GQKCIVQTTSSWSQSKTCGTGISTRVTNDNPECRLVKETRICEVRPCGQPVYSSLKKGKKCSKTKKSPEPVRFTY
AGCLSVKKYRPKYCGSCVDGRCTPQLTRTVKMRFRCEDGETFSKNVMMIQSCKCNYNCPHANEAAFFFYRLFND
IHKFRD

[illegible]

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FIGURE 272

MVNP GSSSQPPPV TAGSLSWKRCAGCGGKIADRFLLYAMDSYWHSRCLKSCCQAQLGDIGTSCYTKSGMILCRN
DYIRLFGNSGACSACGQSIPASELVMRAQGNVYHLKCFTCSTCRNRLVPGDRFHYINGSLFCEHDRPTALINGHL
NSLQSNPLLPDQKVC

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FIGURE 273

AGCGATGGCGGCTGGGCCGAGTGGGTGTCTGGTGCCGGCGTTTGGGCTACGGTTGTTGTTGGCGACTGTGCTTCA
AGCGGTGTCTGCTTTTGGGGCAGAGTTTTCATCGGAGGCATGCAGAGAGTTAGGCTTTTCTAGCAACTTGCTTTG
CAGCTCTTGTGATCTTCTCGGACAGTTCAACCTGCTTCAGCTGGATCCTGATTGCAGAGGATGCTGTCCAGGAGGA
AGCACAATTTGAAACCAAAAAGCTGTATGCAGGAGCTATTCTTGAAGTTTGTGGATGAAAATTGGGAAGGTTCCC
TCAAGTCCAAGCTTTTGTAGGAGTGATAAACCCAACTGTTTCAGAGGACTGCAAATCAAGTATGTCCGTGGTTC
AGACCCTGTATTAAAGCTTTTGGACGACAATGGGAACATTGCTGAAGAACTGAGCATTCTCAAATGGAACACAGA
CAGTGTAGAAGAAATTCCTGAGTGAAAAGTTGGAACGCATATAAATCTTGCTTAAATTTGTCCATCCTTTTGTT
ACCTTATCAAATGAAATATTACAGCACCTAGAAAATAATTTAGTTTGTGCTTGCTTCCATTGATCAGTCTTTTACT
TGAGGCATTAAATATCTAATTAATCGTGAAATGGCAGTATAGTCCATGATATCTAAGGAGTTGGCAAGCTTAAC
AAAACCCATTTTTTATAAATGTCCATCCTCCTGCATTGTGATACCACTAACAAAATGCTTTGTAACAGACTTG
CGGTTAATTATGCAAATGATAGTTTGTGATAATTGGTCCAGTTTACGAACAACAGATTCTAAATTAGAGAGGT
TAACAAGACAGATGATTACTATGCCTCATGTGCTGTGTGCTCTTTGAAAGGAATGACAGCAGACTACAAAGCAAA
TAAGATATACTGAGCCTCAACAGATTGCCTGCTCCTCAGAGTCTCTCCTATTTTGTATTACCCAGCTTTCTTTT
TAATACAAATGTTATTTATAGTTTACAATGAATGCACTGCATAAAAACTTTGTAGCTTCATTATTGTAAACATA
TTCAAGATCCTACAGTAAGAGTGAAACATTACAAAGATTGCGTTAATGAAGACTACACAGAAAACCTTTCTAG
GGATTTGTGTGGATCAGATACATACTTGGCAAATTTTGTAGTTTACATTCTTACAGAAAAGTCCATTTAAAGT
GATCATTGTGAAGACCAAAATATAAATAAAAAGTTCAAAAATCTATCTGAATTTGGAATTCTTCTGGTTTGTTC
TTTCATGTTTAAAAATGATGTTTTTCAATGCATTTTTTTCATGTAAGCCCTTTTTTTAGCCAAAATGTAAAAATG
GCTGTAATATTTAAACCTTATAACATCTTATTGTTGGTAATAGTGCTTTATATTTGTCTGATTTTATTTTCAA
GTTTTTTCATTATGAACACATTTTCATTGGTATATTATTTAAGGAATATCTCTTGATATAGAATTTTATATTA
AAAATGATTTTCTTTGGC

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FIGURE 274

MAAGPSGCLVPAFGLRLLLATVLQAVSAFGAEFSSEACRELGFSSNLLCSSCDLLGQFNLLQLDPDCRGCCQEEA
QFETKKLYAGAILEVCGENWEGSLKSKLLLGVINPNCSEDCKSSMSVVQTLYLKLLDDNGNIAEELSILKWNTDS
VEEFLSEKLERI

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FIGURE 275

GCTCTTTCCTAAGCAGCCTGAAGTAATCTGTGAAAATGGTTCGCTATTCACTTGACCCGGAGAACCCCATGAAA
TCACACTCGTGAAACTGCTCAGGCCATCAAGGGTATGCATATACGAAAAGCCACGAAGTATCTTAAAGATGTCAC
TTTACAGAAACAGTGCATACCATTCCGACGTTACAATGGTGGAGTTGGCAAGTGTGCGCAGGCCAAGCAGTGGGG
CTGGACACAAGGTCGGTGGCCCAAAAAGAGTGCTGAATTTTGTGCTGCACATGTTTAAAAACGCAGAGGGTAATAC
TGAACCTAAGGGTTTAGATGTAGATTCTCTGGTCATTGAGTATATCCAAGTGAACAAAGCACCTAAGATGCTCCG
CCGGACCTACAGAGCTCATGGTCGGATTAACTCATACATGAGCTCTCCCTGGCACATTGAGATGATCCTTACTGA
AAAGGAACAGATTGTTCTTAAACCAGAAAAGGAGGTTGCCCAGAAGAAAAAGATATCCCAGAAGAACTGAAGAA
ACAAAAACTTATGGCCCGGAAGTAAATTCAGCATTAAAAATAATGTAATTAAAAGGAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAG

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FIGURE 276

GCTCTTTCCCTAAGCAGCCTGAAGTAATCTGTGAAAATGGTTCGCTATTCACTTGACCCGGAGAACCCCATGAAA
TCATGCAAATCAAGAGGTTCCAATCTTCGTGTTCACTTTAAGGACACTCGTGAAACTGCTCAGGCCATCAAGGGT
ATGCATATACGAAAAGCCACGAAGTATCTTAAAGATGTCACTTTACAGAAACAGTGCATACCATTCCGACGTTAC
AATGGTGGAGTTGGCAAGTGTGCGCAGGCCAAGCAGTGGGGCTGGACACAAGGTCGGTGGCCCCAAAAGAGTGCT
GAATTTTTGCTGCACATGTTTTAAAAACGCAGAGGGTAATACTGAACTTAAGGGTTTAGATGTAGATTCTCTGGTC
ATTGAGTATATCCAAGTGAACAAAGCACCTAAGATGCTCCGCCGGACCTACAGAGCTCATGGTCGGATTA ACTCA
TACATGAGCTCTCCCTGGCACATTGAGATGATCCTTACTGAAAAGGAACAGATTGTTCTAAACCAGAAAAGGAG
GTTGCCCAGAAGAAAAAGATATCCCAGAAGAACTGAAGAAACAAAACTTATGGCCCGGAAGTAAATTCAGCAT
TAAATAAATGTAATTAAAAGG

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FIGURE 277

CTTTTTCACAACGGGTTTGGCTGCCAGAACACAGGTGTGCTGAAACTACCCCTAAAAGCCAAAATGGGAAAAGAA
AAGACTCATATCAACATTGTGTCATTGGACACGTAGATTCGGGCAAGTCCACCACTTCTGGCCATCTGATCTAC
AAATGCGGTGGCATCGACAAAAGAACAATTGAAAAATTGCAGAAAGAGGCTGCTGAGATGGGAAAGGGCTCCTTC
AAGTATGCCTGAGTCTTGGATAAACTGAAAGCTGAGCGTGAACGTGGTATCACCATTGATATCTCCTTGTGGAAA
TTTGAGACCAGCAAGTACTATGTGACTATCATTGATGCCCCAGGACACAGAGACTTCATCAAAAACATGATTACA
GGGACATCTCAGGCTGGTTGTGCTGCTCTAATTGTTGCTGCTGGTGTGGTGAATTTGAAGCTGGTATCTCCAAG
AATGGGCAGACCCGAGAGCATGCCCTTCTGGCATATACACTGGGTGTGAAACAACATAATTGTTGATGTTAACAAA
ATGGATTCCACTGAGCCACCCTACAGCCAGAAGAGATATGAGGAAATTGTTAAGGAAATCAGCACTTACATTAAG
AAAATTGGCTACAACCCCAACACAGTAGCATTGTTGCCAATTTCTGGTTAGAATGGTGACAACTGCTGGAGCCA
AGTGCTAACATGCCTTGGTTCAAGGGATGGAAAGTCACCCATAAGGATGGCAATGCCAGTGAACCATGCTGCTT
GAGGCTCTGGACTGCATCCTACCACCACTCGTCCAAGTGAAGCCCTTGCCTGCTCCTCCAGGATGCTCTAC
AAAATTGGTGGTATTGGTACTGTTCTTGTGGCCGAGTGGAGACTGGTATTCTCAAACCTGGTATGGTGGTCACC
TTTGCTCCAGTCAGCGTTACAACAGAAGTAAATCTGTGAAATGCACCATGAAGCTTTGAATGAAGCTCTTCCT
GGGACAAATATGGGCTTCAATGTCAAGAATGTGTCIGTCAAGGATGTTTCATCGTGGCAACGTTGCTGGTGACAGC
AAAAATGACCACCAATGGAAGCAGCTGGCAAGCCCATGTGTGTTGAGAGCTTCTCAGACTATCCACCTTTGGGT
CGCTTTACTGTTTCATGATATGAGACAGACACTTGCCTGGGTGTCATCAAAGCAGTGGACAAGAAGGCTGCTGGA
GCTGGCAAGGTCACCAAGTCTGCCCAGAAAGCTCAGAAGGCTAAATGAAATATTATCCCTAATACCTGCCACCCCA
CTCTTAATCAGTGGTGAAGAACGGTCTCAGAAGTGTGTTTCAATTGGCCATTTAAGTTTAGTAGTAAAAGAC
TGGTTAATGATAATAATGCAACATAAAACCTTCAGAAGGAAAGGAGAATGTTTTGTGGACCACCTTGGTTTTCTT
TTTCGCATGCAGCAGTTTTTAAGTTATTAGTTTTTAAATCAGTACTTTTTAAATGGAACAACCTTGACCAAAAAT
TTGTCA.CAGAATTTTGAGACCCATTAAAAAAGTTTAATGAG

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FIGURE 278

MLEPSANMPWFKGWKVTHKDGNASGTMLEALDCILPPTTRPTDKPLRLPLQDVYKIGGIGTVLVGRVETGILKPG
MVRTFAPVSVTTEVKSVEMHHEALNEALPGDNMGFNVKNVSVKDVHRGNVAGDSKNDPPMEAAGKPMCVESFSY
PPLGRFTVHDMRQTLAVGVIAVDKKAAGAGKVTKSAQKAQKAK

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FIGURE 279

CACAGGTGTCGTGAAAAC TACCCCTAAAAGCCAAAATGGGAAAAGAAAAGACTCATATCAACATTGTCGTCATTG
GACACGTAGATTTCGGGCAAGTCCACCACTTCTGGCCATCTGATCTACAAATGCGGTGGCATCGACAAAAGAACAA
TTGAAAATTGCAGAAAGAGGCTGCTGAGATGGGAAAGGGCTCCTTCAAGTATGCCTGAGTCTTGGATAAACTGA
AAGCTGAGCGTGAACGTGGTATCACCATTGATATCTCCTTGTGGAAATTTGAGACCAGCAAGTACTATGTGACTA
TCATTGATGCCCTTCTGGCATATACACTGGGTGTGAAACAAC TAATTGTTGATGTTAACAAAATGGATTCCACTG
AGCCACCC TACAGCCAGAAGAGATATGAGGAAATTGTTAAGGAAATCAGCACTTACATTAAGGGTGACAACATGC
TGGAGCCAAGTGCTAACATGCCTTGGTTCAAGGGATGGAAAGTCACCCATAAGGATGGCAATGCCAGTGGAACCA
TGCTGCTTGAGGCTCTGGACTGCATCCTACCACCAACTCGTCCAAC TGACAAGCCGGCCAAATAAGCTCTGGCTA
TGCACCTGTATTGGATTGCCACACAGCTCACATTGCAAGTTTGCTGAGCTGAAGGAAAAGATTGATCGCCG
TTCTGGTAAAAAGCTGGAAGATGGCCCTAAATTCTTGAAGTCTGGTGATGCTGCCATTGCTGATATGGTTCCTGG
CAAGCCCATGTGTGTTGAGAGCTTCTCAGACTATCCACCTTTGGGTCGCTTTACTGTT CATGATATGAGACAGAC
ACTTGCGGTGGGTGTCATCAAAGCAGTGGACAAGAAGGCTGCTGGAGCTGGCAAGGTCACCAAGTCTGCCCAGAA
AGCTCAGAAGGCTAAATGAATATTATCCCTAATACCTGCCACCCCACTCTTAATCAGTGG

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FIGURE 280

GCCAAAATGGGAAAAGAAAAGACTCATATCAACATTGTCGTCATTGGACACGTAGATTGGGGCAAGTCCACCACT
TCTGGCCATCTGATCTACAAATGCGGTGGCATCGACAAAAGAACAATTGAAAAATTGCAGAAAGAGGCTGCTGAG
ATGGGAAAGGGCTCCTTCAAGTATGCCTGAGTCTTGGATAAACTGAAAGCTGAGCGTGAACGTGGTATCACCATT
GATATCTCCTTGTTGGAAATTTGAGACCAGCAAGTACTATGTGACTATCATTGATGCCCCAGGACACAGAGACTTC
ATCAAAAACATGATTACAGGGACATCTCAGGCTGGTTGTGCTGTCCTAATTGTTGCTGCTGGTGTGGTGAATTT
GAAGCTGGTATCTCCAAGAATGGGCAGACCCGAGAGCATGCCCTTCTGGCATATACACTGGGTGTGAAACAATA
ATTGTTGATGTTAACAAAATGGATTCCACTGAGCCACCCTACAGCCAGAAGAGATATGAGGAAATTGTTAAGGAA
ATCAGCACTTACATTAAAGAAAATTTGGCTACAACCCCAACACAGTAGCATTGTGCCAAATTCTTGAAGTCTGGTG
ATGCTGCCATTGCTGATATGGTTCCTGGCAAGCCCATGTGTGTTGAGAGCTTCTCAGACTATCCACCTTGGGTC
GCTTTACTGTTTCATGATATGAGACAGACACTTGCGGTGGGTG

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FIGURE 281

GTGGAGACTGGTATTCTCAAACCTGGTATGGTGGTCACCTTTGCTCCAGTCAGCGTTACAACAGAAGTAAAATCT
GTCGAAATGCACCATGAAGCTTTGAATGAAGCTCTTCCTGGGGACAATATGGGCTTCAATGTCAAGAATGTGTCT
GTCAAGGATGTTTCATCGTGGCAACGTTGCTGGTGACAGCAAAAATGACCCACCAATGGAAGCAGCTGGCTTCACT
GCTCAGGTGATTATCCTGAACCATCCGGGCCAAAATAAGCTCTGGCTATGCACCTGTATTGGATTGCCACACAGCT
CACATTGCATGCAAGTTTGCTGAGCTGAAGGAAAAGATTGATCGCCGTTCTGGTAAAAAGCTGGAAGATGGCCCT
AAATTCTTGAAAGTCTGGTGATGCTGCCATTGCTGATATGGTTCCTGGCAAGCCCATGTGTGTTGAGAGCTTCTCA
GACTATCCACCTTTGGGTCGCTTTACTGTTTCATGATATGAGACAGACACTTGCGGTGGGTGTCATCAAAGCAGTG
GACAAGAAGGCTGCTGGAGCTGGCAAGGTCACCAAGTCTGCCCAGAAAAGCTCAGAAGGCTAAATGAATATTATCC
CTAATACCTGCCACCCCACTCTTAATCAGTGGTGGGAAGAACGGTCTCAGAACTGTTTGTTCATTGGCCATTTA
AGTTTAGTAGTAAATTTTGTGGACCACTTTGGTT

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FIGURE 282

GTTACTCAAAGACTACCTACTGCGTGGTGGCTCCAAGTGAAATTCGTGAAGAATTAGAAAAGCAGCTTTATTCTTG
TATTGCTCTCAAAGTCCACAGCAAATCAAATGGAATGGAACATTCTTTGATACTAAATAACCTAAAAACATTATT
GTGGAAGAAAATTTTCTACACTAATGACTCTTAGTTTCATTTGGACATAATTACCATTTTAAGAAACCTGCCACTT
TTAAAGAACAATTTTGAGCATTAAAAAAAATGGCTTCAAATTCGGGCCAGTTACACAAAACCTCTTCCCCCAG
GCCTGAGAAGCCATCAGTATGTGATCACTGAAGTAATGGCAGGTGTAGGATCAACAGGTCCCCAAGATGTCATT
CTGCCCTTTTGAAGCCCTGTTACATCTCCGAAGTACATTTCATTGTGTAACATTTTGGACTGACTTTAAAAACCA
ATGCTGTGAAAAGCTTCATTCCATAAACATCAACAGTGAGTGATTGTAGATTACCTTAGCCAAAATACCAATG
CTGGAAGCATGTGTGTTGCATTGAAGCTGCTGTTCAACAAGAAAATTTATAAATTTACTAATGTCTTAGCATGGT
AAAGTTTGCACATTAACAGAAATTAAGACTGCAAAGCAGGTTAAACTTGCTTCTTTATAAACAGATGTTGGGTT
AATAGCATGGTTTACTGTATTAAAGACTTATACACCCATTTTAACTTCATTTCAGACATCAAGTTATGTGTAGCT
TCACAATGGTTCAAGTGGCTTACTTCAAGAAATCTTATACCTTGACAGTACACCAATTTTATTGACTAAAAATGGA
TGAACCTTCTTAAAGATTCAAAGGGGCCATCTTAGTATCACGCAGCTGACTGAGCCCTTCAAACCTGACATCTTA
AGGCCCAATCAAGATCCACATATCCTGATTTTGAAGTATGTGAAAGTGGGACTGTAAGTGCAAGACTAAAAATAA
TTATAGCAGACTTTTTAGTAATAACTTTCCATTTTCAAACAGTATATCCTGTGGGCCAAAGGGCTATTCTTAA
GAGGCATGTAAATGTATTTATTATCTAATGTTTTTTTCCCATGTAAACTTGATATACAAGGTTTAGTATTTGC
TCCTCTTTTCATATTATTTTACACGTATACTCAGATTTGGCATGTACCTTTCAACATCTCCATAAAATTAACAC
CTTTTGGAGAAAAGAACCCTATTTTCTGCTCAAAGGTTTCGCCTACCTAAAGTGGAACATGTTAAAAATCTATG
TGACCATCACTGGACAGCTTTCTCTCAAACCTTTCCTTCAACGCCATGGATTAGCACCAGTTTTGTTTACTTTAA
GGTACTTTTCCCATTCATCATCTGGTTATAAATAATGGATGGAAGAAATATTTCCCACTGATGGTTGGTCTGTTG
CTTGCCAAATTTTAGGGAGAGCTGTTTCATCATACAACATAAGGGATAATGACTCCTGTGAGGTAACACAGAAGC
CCAAGAAATAACAACCTTTTTTCTTAAAAAGTTAGTTACACTTGTTTTCTTGGAGAAAAAACCTGTCAACTCCT
TTGCTTTTCCAAAATATTTTCAAGGTATTTCCCTATAAGGTTTATAAGAAATAAGAGCTTAACACAGAAATAGTTGCT
GTTTATAAGTTTATTATCTATATCTGAAAAATCATAGAAAATGTCTGGGTTTAGCTCTCAGCAGCCCGCTCCTG
AGCTCTGAGGAAGCTTGCCCTTCTTTGAGCTACCCGATCCTTCTCTGAGCAAGGGACATTTTGGGACGGTTCCA
CCTACAAAAGATAGGAATATATATTTTAACTATACTGAAGAGAATAGAATATTTAATTTAAATTTTAATA
AAATTTAATTTGATAGAGAATATTTAAGACTTTGCAATCAGAAGGTTAAATAATCCAAGTTCAAATACATTTAC
TTATGTATGATCTTAAGCTAATTTCCCAAACCCCACTTCTGTGATGTCTACTACCATAGGGCCAAAAGTCAA
ATAGAAGACATGTTAGATTCAAGTAATACCCTTCTAGGTATTTGCCCAAATGTTTTGAAATCAGTTTGTTCCAAGA
GAGTGGCACTCCCATGTTTCATTGCAGCACTATATATTAATAGCAACAGATAAATGGATAAAGGAAATGTGGTATA
CATATACATAATGGATTATTACCCAGTCTTTAAAAATGATGGAATTTCTGTCATTTGCAACATGAATGAAGTGA
GAATATTGTGCTCAGTGAATAAGCCAGGCACAAAAGACAAATACTTCATATTATAGAAATCTAAAAAATG
GAACTCACAGAAGCAGAGAGCAGAATGGTGGTTACAGAGGCTGGTGGGTGCAAAGAAATGGGCAGATGATAGTCAA
GTATAAATCTCCAACAGGAGGAGTATGATTTTGTGTTTAGTTCTATTGCACAGCATGATGAATATAGAATATCG
TACATTTACAATTAAGAGAATAAATTTCAAATGTTGTTGCCACAAAGTGTTAAGTATTGAGGTGAATATGTTA
AATACATTGATTTAATTACTATACATTGTATTTGTGGGCCATCACATCACTTTATGCTTACATGTTTATTAAAGTA
TTACTTTCTATTCCATTTAAAGATCAAAACATGAAAGATCAACAAAAGCAACTTGTGAGCCAATAAAAAAATGC
AGTAACCACTACTTAGACTGTACTAGGATAGAAAGAACCACTCAGTAGTGTCTGAGGCTAACACATTTCCATCA
CCACAGTTACTTTGCAAACCTGGTTCCTTTCGCTTCTGCCACATCACGCAGAGCTAGTGATCGAGTTTGCACAA
TTACACCAACAGTCTGCCCCACGTGGGAACCATTTCCAACTGTTTTCTTGAAAAGACAAAAAAGACGACAT
ACCTCTTCTTTTAACTTCTTTCTTGGGCTTCTTTTCATAGACTGGATTCTCTCGTATAGCAGCATGAGCTTTCT
TATACATCTCTCCATCTGAAACAAAGGAAAGCAACAGTACTTGGTTTCATTTTCATGTGCCCTACTATATTAAT
GCAACCATAACTTATCTTGTCTTCTAAGCCAGATTCTCAAAGGAACATAAATAAATCAATGTTGGTAAACACT
TTAATTCTAAATGTAACCTACCTTTTCTTAACAAATTTCCAAATTTTACCTTATGCAATGTGAATTATCACTAC
AGAACTCCATCTTACTCAAGAAAAAATCAGGCCAGGTGTGGTGGTTCATGCTGTAACTCAAGCATTGGGA
GTCTGAAGTGGGAGGATCACTTCAGCCCAGGAGTTGAGACCAGCTAAGGCAACACAGTGAGACCTGTCTCCATA
AAAAACTAATTAGCCAGGTGGCAATTATTAATGGTGGCATGCACCTGTAGTCCAGCTACAGGACTACAGCTGA
GTCCAGGAGGTCAAGGCTGCAGTGGCACAATCACAGCTCACTGGACCCAGCCTAGATGACAGAATGAGACCTCA
TCTTACCAAAAATTAATAAAAAAAAAAAAAAAAAAATTAGCAGGG

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FIGURE 283

MFFSPCKLDIQGLVFAPLSYYFHTYTQIWHVFPNISIKLNTFWRKEPLFSAQRFRLEPKVEHVKNLCDHHWTAFSQ
NFPSTPWISTSFVYFKVLFPFIWL

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FIGURE 284

CCTAGCGCCGCTGGGCCTGCAGGTCTCTGTCGAGCAGCGGACGCCGGTCTCTGTTCCGCAGGATGGGGTTTGTTA
AAGTTGTTAAGAATAAGGCCTACTTTAAGAGATACCAAGTGAAATTTAGAAGACGACGAGAGGGTAAACTGATT
ATTATGCTCGGAAACGCTTGGTGATACAAGATAAAAAATAAACAACACACCCAAATACAGGATGATAGTTCGTG
TGACAAACAGAGATATCATTGTGTCAGATTGCTTATGCCCGTATAGAGGGGGATATGATAGTCTGCGCAGCGTATG
CACACGAACTGCCAAAATATGGTGTGAAGGTTGGCCTGACAAATTATGCTGCAGCATATTGTACTGGCCTGCTGC
TGGCCCGCAGGCTTCTCAATAGGTTTGGCATGGACAAGATCTATGAAGGCCAAGTGGAGGTGACTGGTGATGAAT
ACAATGTGGAAAGCATTGATGGTCAGCCAGGTGCCTTCACCTGCTATTTGGATGCAGGCCTTGCCAGAACTACCA
CTGGCAATAAAGTTTTTGGTGCCCTGAAGGGAGCTGTGGATGGAGGCTTGTCTATCCCTCACAGTACCAAACGAT
TCCCTGGTTATGATTCTGAAAGCAAGGAATTTAATGCAGAAGTACATCGGAAGCACATCATGGGCCAGAATGTTG
CAGATTACATGCGCTACTTAATGGAAGAAGATGAAGATGCTTACAAGAAACAGTTCTCTCAATACATAAAGAACA
GCGTAACTCCAGACATGATGGAGGAGATGTATAAGAAAGCTCATGCTGCTATACGAGAGAATCCAGTCTATGAAA
AGAAGCCCAAGAAAGAAGTTAAAAAGAAGAGGTGGAACCGTCCCAAAATGTCCCTTGCTCAGAAGAAGGATCGGG
TAGCTCAAAAGAAGGCAAGCTTCCTCAGAGCTCAGGAGCGGGCTGCTGAGAGCTAAACCCAGCAATTTTCTATGA
TTTTTTCAGATATAGATAATAAACTTATGAACAGCAACTAAAAAAAAAAAAAAAAAAAAA

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FIGURE 285

MGFVKVVKNKAYFKRYQVKFRRRREGKTDYYARKRLVIQDNKYNTPKYRMIVRVNTRDIICQIAYARIEGDMIV
CAAYAHELPHYGVKVLTNAAAAYCTGLLLARRLLNRFMDKIYEGQVEVTGDEYNVESIDGQPGAFTCYLDAGL
ARTTTGNKVFALKGAVDGGLSIPHSTKRFPGYDSESKEFNAEVHRKHIMGQNVADYMRYLMEEDEDAYKKQFSQ
YIKNSVTPDMMEEMYKKAHAAIRENPVYEKKPKKEVKKRWNRPKMSLAQKKDRVAQKKASFLRAQERAAES

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FIGURE 286

ATGGTAATGTTAAGACAAATCTTGGGAGAAACATTTATCAATTCCAATACCTCTCTCCACCCCAATACTGTATG
CTCTTGGAAGAAGATGAAGATGCTTACAAGAAACAGTTCTCTCAATACATAAAGAACAGTGTA ACTCCAGACATG
ATGGAGGAGATGTATAAGAAAGCTCATGCTGCTGTACCAGAGAATCCGGTCTATGAAAAGAAGCCCAAGAAAGAA
GTTAAAAAGAAGAGGTGGAACCGTTCCAAAATGTCCTTGCTCAGAAGAAGGATTGGGTAGCTCAAAAAGAAGGCA
AGCTTCCTCAGAGCTTAG

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FIGURE 287

MVNVKTNLGRNIYQFQYLSPPQYCMLEEDDAYKKQFSQYIKNSVTPDMMEEMYKKAHAAPENPVYEKKPKKE
VKKKRWNRSKMSLAQKDWVAQKKASFLRA

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FIGURE 288

GCTGACTCCAGTGTCCCGAGAGGCGCCGCTTCTTCCGCTTTCTCGTCAGGCTCCTGCAACCCCAGGCATGAACCA
AGGTTTCTGAACTACTGGGCGGGAGCCAACGTCTCTTCTTTCTCCCGCTCTGGCGGAGGCTTTGTCTGCTGCGGGC
TGGGCCCCAGGGTGTCCCCCATGGCGGGGCCCGGGTGGAGGTCGATGGCAGCATCATGGAAGGGGGCGGCCAGA
TCCTGAGAGTCTCTACGGCCTTGAGCTGTCTCCTAGGCCTCCCCCTTGCGGGTGCAGAAGATCCGAGCCGGCCGGA
GCACGCCAGGCCTGAGGCCTCAACATTTATCTGGACTGGAATGATTGAGATTGTGTGATGGGCACTGGAGG
GGGCAGAAATTGGCTCAACAGAAATAACCTTTACACCAGAGAAGATCAAAGGTGGAATCCACACAGCAGATACCA
AGACAGCAGGGAGTGTGTGCTCTTGATGCAGGTCTCAATGCCGTGTGTTCTCTTTGCTGCTTCTCCATCAGAAC
TTCATTTGAAAGGTGGAATAATGCTGAAATGGCACCACAGATCGATTATACAGTGATGGTCTTCAAGCCAATTG
TTGAAAAATTTGGTTTCATATTTAATTGTGACATTAAACAAGGGGATATTACCCAAAAGGGGGTGGTGAAAGTGA
TTGTTGCAATGTCACCAGTTAAACAATTGAACCTATAAATTTAACTGAGCGTGGCTGTGTGACTAAGATATATG
GAAGAGCTTTCGTGTCTGGTGTGTTTGCCATTTAAAGTAGCAAAAGATATGGCAGCGGCAGCAGTTAGATGCATCA
GAAAGGAGATCCGGGATTTGTATGTTAATCCAGCCTGTTCAAGAACCTAAAGACCAAGCATTGCGCAATGGAA
ATGGAATAATAATTATTGCTGAGACCTCCACTGGCTGTTTGTGTTGCTGGATCATCGCTTGGTAAACGAGGTGTAA
ATGCAGACAAAGTTGGAATTGAAGCTGCCGAAATGCTATTAGCAAATCTTAGACATGGTGGTACTGTGGATGAGT
ATCTGCAAGACCAGCTGATTGTTTTATGGCATTAGCCAATGGAGTTTCCAGAATAAAAACAGGACCAGTTACAC
TCCATACGCAAACCGCGATACATTTTGCTGAACAAATAGCAAAGGCTAAATTTATTGTGAAGAAATCAGAAGATG
AAGAAGACGCCGCTAAAGATACTTATATTATTGAATGCCAAGGAATTGGGATGACAAATCCAAATCTATAGAGTA
TTTGCTCTTAAATGATACCTCATTGATATATTGCACTATTTATAAATACTATAAAATAATGACTAGGAAGTAA
CTTATTAAAGGCTATGACTTAAATTTGAAGATGAAGTACAGTGTCTAGGTTTGCTGAGAAGGCTTCATTAAATT
AATCTCACTTTGAATATCTCCTGAGAGATGGACAATGAAATATCAGTTGGTGGATATGTGTGATAGCTGATTCA
ATATTGAAGTATTGAAATAAAATATTCTTTACACCTGAG

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FIGURE 289

MAGPRVEVDGSIMEGGGQILRVSTALSCLLGLPLRVQKIRAGRSTPGLRPQHLSGLEMIRDLC DGQLEGAEIGST
EITFTPEKIKGGIHTADTKTAGSVCLLMQVSMPCVLFAASPSELHLKGGTNAEMAPQIDYTMVFKPIVEKFGFI
FNCDIKTRGYYPKGGGEVIVRMSPVKQLNPINLTERGCVTKIYGRAFVAGVLPFKVAKDMAAAVRCIRKEIRDL
YVNIQPVQEPKDQAFGNGNGIIIIAETSTGCLFAGSSLGKRGVNADKVGIEAAEMLLANLRHGGTVDEYLQDQLI
VFMALANGVSRIKTGPVTLHTQTAIHF AEQIAKAKFIVKSEDEEDA AKDTYII ECQGIGMTNPNL

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FIGURE 290

GCTTTTCCTTGCTACCTGCAGAGGGGTCCATACGGCGTTGTTCTGGATTCCCGTCGTAACCTTAAAGGGAACTTT
CACAATGTCCGGAGCCCTTGATGTCCTGCAAATGAAGGAGGATGTCCTTAAGTTCCTTGCAGCAGGAACCCACTT
AGGTGGCACCAATCTTGACTTCCAGATGGAACAGTACATCTATAAAAGGAAAAGTGATGGCATCTATATCATAAA
TCTGAAGAGGACCTGGGAGAAGCTTCTGCTGGCAGGTCGTGCTATTGTTGCCATTGAAAACCCTGCTGATGTCAG
TGTTATATCCTCCAGGAATACTGGCCAGAGGGCTGTGCTGAAATTGCTGCTGCCACTGGAGCCACTCCAATTGC
TGGCCGCTTCACTCCTGGAACCTTCACTAACC GGATCCAGGCAGCCTTCCGGGAGCCACGGCTTGTTGTGGTTAC
TGACCCAGGGCTGACCACCAGCCTCTCACAGAGGCATCTTATGTTAACCTACCTACCATTGCGCTGTGTAACAC
AGATTCTCCTCTGTGCTATGTGGACATTGCCATCCCATGCAACAACAAGGGAACCTCACTCAGTGGGTTTGATGTG
GTGGATGCTGGCTCGGGAAGTTCTGCGCAIGTGTGGCACCATTTCCTGTAACACCCATGGGAGGTGATGCCTGA
TCTGTACTTCGACAGAGATCCTGAAGAGATTGAAAAAGAAGAGCAGGCTGCTGCTGAGAAGGCAGTGACCAAGGA
GGAATTTAGGGTGAATGGACTGCTCCAGCTCCTGAGTTCACTGCTACTCAGCCTGAGGTTGCAGACTGGTCTGA
AGGTGTACAGGTGCCCTCTGTGCCTATTAGCAATTCCTACTGAAGACTGGAGCGCTCAGCCTGCCACGGAAGA
CTGGTCTGCAGCTCCCACTGCTCAGGCCACTGAATGGGTAGGAGCAACCCTGACTGGTCTTTAAGCTGTTCTTGC
ATAGGCTCTTAAGCAGCATGGAAAAATGGTTGATGGAAAATAAACATCAGTTTCT

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FIGURE 291

MSGALDVLQMKEDVLKFLAAGTHLGGTNLDFQMEQYIYKRKSDGIYIINLKRTWEKLLLAGRAIVAIENPADVSV
ISSRNTGQRAVLKFAAATGATPIAGRFTPGTFTNRIQAAREPRLVVVTDPRADHQPLTEASYVNLPTIALCNTD
SPLCYVDIAIPCNNKGTHSVGLMWWMLAREVLRMCGTISREHPWEVMPDLYFDRDP EEIEKEEQAAAEKAVTKEE
FQGEWTAPAPEFTATQPEVADWSEGVQVPSVPIQQFPTEDWSAQPATEDWSAAPTAAQATEWVGATTDWS

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FIGURE 292

GGCACGAGGAAGAATCAGGAGCTTAGGATGTATTAAACCAACTCATTAAATACTAACC GGACAATGTTCTACA
AACAAATTCTACATTGTAAAGGACTGGATTGGCACAAAATAAAATAATTTTATTTTATTCAGCTTATAATATGACT
CGATTGGAGGAAAATTTGATAAGCATGAGAGAAGACCATTCTTTTCATGTTTCGTTACAGAATGGAAGCTTCTTGCC
TAGAGCTGGCCTTGGAAGGGGAACGTCTATGTAAATCAGGAGACTGCCGCGCTGGCGTGTCAATTCTTTGAAGCTG
CAGTTCAAGTTGGAACTGAAGACCTAAAAACACTTAGCGCTATTTACAGCCAGTTGGGCAATGCTTATTTCTATT
TGCAATGATTATGCCAAAAGCATTAGAATATCACCATCATGATTTAACCCCTTGCAAGGACTATTGGAGACCAGCTGG
GGGAAGCGAAAGCTAGTGGTAATCTGGGAAACACCTTAAAAGTTCTTGGGAATTTTGACGAAGCCATAGTTTGT
GTCAGCGACACCTAGATATTTCCAGAGAGCTTAATGACAAGGTGGGAGAAGCAAGAGCACTTTACAATCTTGGGA
ATGTGTATCATGCCAAAAGGGAAAAGTTTGGTTGCCCTGGTCCCCAGGATGTAGGAGAATTTCCAGAAGAAGTGA
GAGATGCTCTGCAGGCAGCCGTGGATTTTATGAGGAAAACCTATCATTAGTGACTGCTTTGGGTGACCGAGCGG
CACAAAGGACGTGCCCTTTGGAAATCTTGGAAACACACATTACCTCCTTGGCAACTTCAGGGATGCAGTTATAGCTC
ATGAGCAGCGTCTCCTTATTGCAAAAGAATTTGGAGATAAAGCAGCTGAAAGAAGAGCATATAGCAACCTTGGA
ATGCATATATATTTCTTGGTGAATTTGAAACTGCCTCGGAATACTACAAGAAGACACTACTGTTGGCCCCGACAGC
TTAAAGACCGAGCTGTAGAAGCACAGTCTTGTTACAGTCTTGGAAATACATATACTTTACTTCAAGACTATGAAA
AGGCCATTGATTATCATCTGAAGCACTTAGCAATTGCTCAAGAGCTGAATGATAGAATTGGTGAAGGAAGAGCAT
GTTGGAGCTTAGGAAATGCATACACAGCACTAGGAAATCATGATCAAGCAATGCATTTTGTGAAAAGCACTTGG
AAATTTCAAGAGAGGTTGGGGATAAAAGTGGTGAACCTAACAGCAGCACTTAATCTCTCAGACCTTCAAATGGTTC
TTGGTCTGAGCTACAGCACAAATAACTCCATAATGTCTGAAAATACTGAAATTGATAGCAGTTTGAATGGTGTAC
TCCCCAAGTTGGGACGCCGGCATAGTATGGAAAATATGGAACCTTATGAAGTTAACACCAGAAAAGGTACAGAACT
GGAACAGTGAAATTTCTTGCTAAGCAAAAACCTCTTATTGCCAAACCTTCTGCAAAGCTACTCTTGTCAACAGAC
TGAAGGGGAAAAAATACAAAACGAATTCCTCCACTAAAGTTCTCCAAGATGCCAGTAATTTCTATTGACCACCGAA
TTCCAAATTTCTCAGAGGAAAATCAGTGCAGATACTATTGGAGATGAAGGGTTCTTTGACTTATTAAGCCGATTT
AAAGCAATAGGATGGATGATCAGAGATGTTGCTTACAAGAAAAGAACTGCCATACAGCTTCAACAACAACTTCTT
CCACTCCCCCTAAATGATGCTAAAAACATCATCTGTTCTGTGGTATCCCCAACACGGATGAGTTTTTAGATC
TTCTTGCCAGCTCACAGAGTCGCCGTCTGGATGACCAGAGGGCTAGTTTCAGTAATTTGCCAGGGCTTCGTCTAA
CACAAAACAGCCAGTCGGTACTTAGCCACCTGATGACTAATGACAACAAAGAGGCTGATGAAGATTTCTTTGACA
TCCTTGTAATGTCAAGGATCCAGATTAGATGATCAAAGATGTGCTCCACCACCTGCTACCACAAAGGGTCCGA
CAGTACCAGATGAAGACTTTTTCAGCCTTATTTTACGGTCCCAGGGAAAGAGAATGGATGAACAGAGAGTTCTTT
TACAAAGAGATCAAAACAGAGACACTGACTTTGGGCTAAAGGACTTTTTGCAAAATAATGCTTTGTTGGAGTTTA
AAAATTCAGGGAAAAATCGGCAGACCATAGTTACTATGGATTTATTTTTTTTCTTTTCAAACACGGTAAGGAA
ACAATCTATTACTTTTTTCTTAAAGGAGAATTTATAGCACTGTAATACAGCTTAAAATATTTTGAATGATG
TAAATAGTTAA

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FIGURE 293

MREDHSFHVRYRMEASCLELALALEGERLCKSGDCRAGVSFFEAAVQVGTEDLKTLSTAIYSQLGNAYFYLDYAKAL
EYHHHDLTLARTIGDQLGEAKASGNLGNLTKVLGNFDEAIVCCQRHLDISRELNDKVGEARALYNLGNVYHAKGK
SFGCPGPQDVGEFFPEEVRDALQAAVDFFEENLSLVTALGDRAAQGRAFGNLGNTHYLLGNFRDAVIAHEQRLIA
KEFGDKAAERRAYSNLGNAYIFLGEFETASEYYKKTLLARQLKDRAVEAQSCYSLGNTYTLLQDYEKADYHLK
HLAIAQELNDRIGEGRACWSLGNAYTALGNHDQAMHFAEKHLEISREVGDKSGELTARLNLSDLQMVGLGLSYSTN
NSIMSENTEIDSSLNGVLPKLGRRHSMENMELMKLTPEKVQNNWSEILAKQKPLIAKPSAKLLFVNRLKGKKYKT
NSSTKVLQDASNSIDHRIPNSQRKISADTIGDEGFFDLLSRFQSNRMDQRCCLQEKNCHTASTTTSSTPPKMML
KTSSVPVVPNTDEFDILLASSQSRRLDDQRAFSLNLPGLRLTQNSQSVLSHLMNTNDNKEADEDFFDILVKCQGS
RLDDQRCAPPPATTKGPTVPDEDDFSLILRSQGKRMDEQRVLLQRDQNRDTEFGLKDFLQNNALLEFKNSGKKSA
DH

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FIGURE 294

AAGCAGCCTGAGGTAATCTGTGAAAAATGGTTCGCTATTCACCTTGACCCGAGAAACCCACGAAATCATGCAAATC
AAGAGGTTCCAATCTTCGTGTTCACTTTAAGAACACTCGTGAAACTGCTCAGGCCATCAAGGGTATGCATATACG
AAAAGCCACGAAGTATCTGAAAGATGTCACCTTACAGAAACAGTGTGTACCATTCCGACGTTACAATGGTGGAGT
TGGCAGGTGTGCGCAGGCCCTGCACATGCTTAAAAACACAGAGAGTAATGCTGAACTTAAGGGTTTAGATGTAGA
TTCTCTGGTCATTGAGCATATCCAAGTGAACAAAGCACCTAAGATGCGCCGCCGACCTACAGAGCTCATGGTCG
GATTAACCCATACATGAGCTCTCCCTGCCACATTGAGATGATCCTTACGAAAAGGAACAGATTGTTCTAAACC
AGAAGAGGAGGTTGCCCAGAAGAAAAGGATATCCAGAAGAACTGAAGAAACAAAACTTATGGCACGGGAGTA
AATTCAGCAT

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FIGURE 295

GCAGGCTCTGCCTGTGGCCACTAGCAGAGAAGCTGCTGTCCTTCCACCACCAGCACCAGGACCACTGCTCCAAGA
CCAGCCTCCTGGGGGACCAGGCACCCGGCCTTCACTGGCACCCAGGGAGCCGTCCTCAGCAGCGTCAACATGTC
AAGGCCCAGCAGCAGAGCCATTTACTTGCACCGGAAGGAGTACTCCCAGAACCTCACCTCAGAGCCCACCCCTCCT
GCAGCACAGGGTGGAGCACTTGATGACATGCAAGCAGGGGAGTCAGAGAGTCCAGGGGCCCCGAGGATGCCTTGCA
GAAGCTGTTTCGAGATGGATGCACAGGGCCGGGTGTGGAGCCAAGACTTGATCCTGCAGGTCAGGGACGGCTGGCT
GCAGCTGCTGGACATTGAGACCAAGGAGGAGCTGGACTCTTACCGCCTAGACAGCATCCAGGCCATGAATGTGGC
GCTCAACACATGTTCTTACAACCTCCATCCTGTCCATCACCGTGCAGGAGCCGGGCCCTGCCAGGCACTAGCACTCT
GCTCTTCCAGTGCCAGGAAGTGGGGGSCAGAGCGACTGAAGACCAGCCTGCAGAAGGCTCTGGAGGAAGAGCTGGA
GCAAAGACCTCGACTTGGAGGCCCTCAGCCAGGCCAGGACAGATGGAGGGGGCCTGCTATGGAAAGGCCGCTCCC
TATGGAGCAGGCACGCTATCTGGAGCCGGGGATCCCTCCAGAACAGCCCCACCAGAGGACCCTAGAGCACAGCCT
CCCACCATCCCCAAGGCCCTGCCACGCCACACAGTGCCCCGAGAACCAGTGCCTTTACTCTGCCTCCTCCAAG
GCGGTCTCTTCCCCGAGGACCCAGAGAGGGACGAGGAAGTGCTGAACCATGTCTTAAAGGACATTGAGCTGTT
CATGGGAAAGCTGGAGAAGGCCCAGGCAAAGACCAGCAGGAAGAAGAAATTTGGGAAAAAAAAACAAGGACCAGGG
AGGTCTCACCCAGGCACAGTACATTGACTGCTTCCAGAAGATCAAGCACAGCTTCAACCTCCTGGGAAGGCTGGC
CACCTGGCTGAAGGAGACAAGTGCCCTGAGCTCGTACACATCCTCTCAAGTCCCTGAACCTTCATCCTGSCCAG
GTGCCCTGAGGCTGGCCTAGCAGCCCAAGTGATCTCACCCCTCCTCACCCCTAAAGCTATCAACCTGCTACAGTC
CTGTCTAAGCCCACCTGAGAGTAACCTTTGGATGGGGTTGGGCCCAGCCTGGACCACTAGCCGGGCCGACTGGAC
AGGCGATGAGCCCCTGCCCTACCAACCCACATTCTCAGATGACTGGCAACTTCCAGAGCCCTCCAGCCAAGCACC
CTTAGGATACCAGGACCCTGTTTCCCTTCGGCGGGGAAGTCATAGGTTAGGGAGCACCTCACACTTTCCTCAGGA
GAAGACACACAACCATGACCCTCAGCCTGGGGACCCCAACTCCAGGCCCTCCAGCCCCAAACCTGCCAGCCAGC
CCTGAAAATGCAAGTCTTGTACGAGTTTGAAGCTAGGAACCCACGGGAAGTACTGTGGTCCAGGGAGAGAAGCT
GGAGGTTCTGGACCACAGCAAGCGGTGGTGGCTGGTGAAGAATGAGGCGGGACGAGCGGCTACATTTCAAGCAA
CATCCTGGAGCCCCTACAGCCGGGGACCCCTGGGACCCAGGGCCAGTCACCCTCTCGGGTTCCAATGCTTCGACT
TAGCTCGAGGCCTGAAGAGGTCACAGACTGGCTGCAGGCAGAGAAGTCTTCCACTGCCACGGTGAGGACACTTGG
GTCCCTGACGGGGAGCCAGCTACTTCGCATAAGACCTGGGGAGCTACAGATGCTATGTCCACAGGAGGCCCCACG
AATCCTGTCCCGGCTGGAGGCTGTCAGAAGGATGCTGGGGATAAGCCCTTAGGCACCAGCTTAGACACCTCCAAG
AACCAGGCCCCGCTGATGCAAGATGGCAGATCTGATACCCATTAGAGCCCCGAGAATTCTCTTCTGGATCCCAG
TTTGAGCAAACCCACACCCAGCTCACACAGCAAAAACAATGGACAGGCCCAGAGGCTGAAGCAAACAGTGTC
CCTTCTGGCTGTGTTGGAGCCTCCCCAGTAACCACCTATTTATTTTACCTCTTTCCCAAACCTGGAGCATTATG
CCTAGGCTTGTCAGAATCTGTTTCAGTCCCTCTCCTTCTCAATAAAAGCATCTTCAAGCTTGT

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FIGURE 296

GGGAGAAAGCCTGTTGCGTGGAAGATAAGGCGGCGCGGGAAGTGGACACAGGGTGGGCTGGAGCTCAGATCTAAC
TGGACTCTCGCTCCTGCTGGCTGGACATGGAGGATTTGGAGGAAGATGTAAGGTTTATTGTGGATGAGACCTTGG
ACTTTGGGGGGCTGTCAACATCTGACAGCCGTGAGGAGGAAGACATAACAGTGTGGTGACTCCAGAGAAACCAC
TTCGACGGGGCCTCTCCACCGAAGTGACCCAAATGCAGTGGCACCTGCCCCCAGGGTGTGAGGCTCAGCCTAG
GCCCCCTCAGTCCAGAGAAGCTGGAGGAGATCCTCGATGAGGCCAACC GGCTGGCCGCTCAGCTGGAGCAGTGTG
CCCTGCAGGATCGGGAGAGCGCAGGCGAGGGCCTGGGGCCTCGCCGAGTGAAGCCCAGTCTCGGCGGGAGACCT
TTGTGCTGAAGGATAGTCTGTCCGAGACCTGCTGCCCACTGTGAACTCTTTGACGCGGAGCACCCCCCTCCCCAA
GCAGCCTGACGCCCTCGACTCCGGAGTAATGATAGGAAGGGGTGAGTCAGGGCTCTCCGGGCTACATCTGGAAAGA
GGCCCTCCAACATGAAGAGGGAGTCACCCACTTGCAATCTGTTCCCTGCATCCAAAAGCCCAGCATCTTCTCCTC
TTACCCGATCGACTCCCCCAGTCCGGGGGAGAGCCGGGCCAGTGGGAGAGCAGCAGCCAGCCCACCCACCCCCA
TCAGATCCGTCCTGGCCCCACAGCCTTCTACCAGCAACTCTCAACGCCCTGCCCCGGCCGCAGGGAGCAGCTGCTA
AATCTTCCAGTCAACTGCCCATTCCCTCGGCCATCCCCAGGCCTGCCAGCCGAATGCCACTCACCAGCCGGAGTG
TGCCACCTGGCAGAGGTGCCCTACCTCCGGATTCTCTGTCAACTCGAAAAGGGCTTCCAAGACCAAGCACTGCAG
GACACAGAGTGCGGGAAAGTGGACACAAGGTTCCGTGTTCCAGCGACTAAATCTTCTGTGATGGGTGCCACTC
GCAGCAATCTGCAGCCCCCAGGAAAGTGGCAGTCCCAGGACCTACCAGGTAAAGAGATCAGGACAGCAAGCAAG
ACTTCAGTAGCAAACCACTACAGTCAGTACCTGGACTCGCCTCTACCCAGCAGACCCTGACTCCAGCAGATTCTG
GCCCAGGGACAGGAGGAAGAGATGCCACCAGGGCTGGTCTCCAGGAGTAGAGACCATGGGAAATGGGGTGGATT
AGGATTGAGCTGGAGAAGACTTAACTCTCTGGGTTGAAAGAAGATTAGGGGAAAAGAGGTCACCTTCCAGCAGT
GAAATGAACAAATAGAAGATGAGAAGTACAGGCAAGTGGTTGTCTTTATCCACCCCCACTGTTGTGGTCAGCCC
CAGAGAATTTTATCTTCTTCTTGGCATTGGTTCACTGGACATTTCCACGTGAGCGGCCTCCGTAGCTAACCTCC
CTGCCCTCTGAGGAGCCATCTTCCTGAATCGCATTCTCTACTGGACTCTGGCCTGCTTGGAGAGGTGGCAGCAGG
CACCTGGTCTTCAGAAATTGTTTCTGTGAATTCTGTGACTCCTAATAGGCCAGTTTGTGATAAGCTTACTCTAT
GAGTCTTCATTTTCTAAAATAAAGTGAATGTATTTTAAAAAAAAAAAAAAAAAAAA

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FIGURE 297

MEDLEEDVRFIVDETLDGGLSPSDSREEEDITVLVTPEKPLRRGLSHRSDPNAVAPAPQGVRLSLGFLSPEKLE
EILDEANRLAAQLEQCALQDRESAGEGLGPRRVKPSPRRETFLVKDSPVRDLLFTVNSLTRSTPSPSSLTPRLRS
NDRKGSVRALRATSGKRPSNMKRESPTCNLFPASKSPASSPLTRSTPPVRGRAGPSGRAAAASPPTPIRSVLAPQP
STSNSQRLPRPQGAAAKSSSQLPIPSAIPRPASRMPLTSRSVPPGRGALPPDSLSTRKGLPRPSTAGHRVRESGH
KVPVSQRLNLPVMGATRSNLQPPRKVAVPGPTR

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FIGURE 298

GCAGTGCGGCGGTACAGGCTGAGTGCTGCGGCGCGATCCTTGCTTCCCTGAGCGTTGGCCCGGGAGGAAAGAAG
ATGGTGCTGGATCTGGATTTGTTTCGGGTGGATAAAGGAGGGGACCCAGCCCTCATCCGAGAGACGCAGGAGAAG
CGCTTCAAGGACCCGGGACTAGTGGAACAGCTGGTGAAGGCAGACAGCGAGTGGCGACGATGTAGATTTTCGGGCA
GACAACTTGAACAAGCTGAAGAACCTATGCAGCAAGACAATCGGAGAGAAAATGAAGAAAAAGAGCCAGTGGGA
GATGATGAGTCTGTCCCAGAGAATGTGCTGAGTTTCGATGACCTTACTGCAGACGCTTTAGCTAACCTGAAAGTC
TCACAAATCAAAAAAGTCCGACTCCTCATTGATGAAGCCATCCTGAAGTGTGACGCGGAGCGGATAAAGTTGGAA
GCAGAGCGGTTTGAGAACCTCCGAGAGATTGGGAACCTTCTGCACCCCTTCTGTACCCATCAGTAACGATGAGGAT
GTGGACAACAAAGTAGAGAGGATTTGGGGTGATTGTACAGTCAGGAAGAAGTACTCTCATGTGGACCTGGTGGTG
ATGGTAGATGGCTTTGAAGGCGAAAAGGGGGCCGTGGTGGCTGGGAGTCGAGGGTACTTCTTGAAGGGGGTCTTG
GTGTTCCCTGGAACAGGCTCTCATCCAGTATGCCCTTCGCACCTTGGGAAGTCGGGGCTACATTTCCATTATACC
CCCTTTTTCATGAGGAAGGAGGTGATGCAGGAGGTGGCACAGCTCAGCCAGTTTGATGAAGAACTTTATAAGGTG
ATTGGCAAAGGCAGTGAAAAGTCTGATGACAACTCCTATGATGAGAAGTACCTGATTGCCACCTCAGAGCAGCCC
ATTGCTGCCCTGCACCGGGATGAGTGGCTCCGGCCGGAGGACCTGCCCATCAAGTATGCTGGCCTGTCTACCTGC
TTCCGTCAGGAGGTGGGCTCCCATGGCCGTGACACCCGTGGCATCTTCCGAGTCCATCAGTTTGAGAAGATTGAA
CAGTTTGTGTACTCATACCCCATGACAACAAGTCATGGGAGATGTTTGAAGAGATGATTACCACCGCAGAGGAG
TTCTACCACTCCCTGGGGATTCCCTTACCACATTGTGAATATTGTCTCAGGTTCTTTGAATCATGCTGCCAGTAAG
AAGCTTGACCTGGAGGCCTGGTTTCCGGGCTCAGGAGCCTTCCGTGAGTTGGTCTCCTGTTCTAATTGCACGGAT
TACCAGGCTCGCCGGCTTCGAATCCGATATGGGCAAACCAAGAAGATGATGGACAAGGTGGAGTTTGTCCATATG
CTCAATGCTACCATGTGCGCCACTACCCGTACCATCTGCGCCATCCTGGAGAACTACCAGACAGAGAAGGGCATC
ACTGTGCCTGAGAAATTGAAGGAGTTCATGCCGCCAGGACTGCAAGAACTGATCCCTTTGTGAAGCCTGCGCCC
ATTGAGCAGGAGCCATCAAAGAAGCAGAAGAAGCAACATGAGGGCAGCAAAAAGAAAGCAGCAGCAAGAGACGTC
ACCCTAGAAAACAGGCTGCAGAACATGGAGGTCACCGATGCTTGAACATTCTGCCTCCCTATTTGCCAGGCTTT
CATTTCTGTCTGCTGAGATCTCAGAGCCTGCCCAACAGCAGGGAAGCCAAGCACCCATTATCCCCCTGCCCCCA
TCTGACTGCGTAGCTGAGAGGGGAACAGTGCCATGTACCACACAGATGTTCTGTCTCCTCGCATGGGCATAGGG
ACCCATCATTGATGACTGATGAAACCATGTAATAAAGCATCTCTGGGGAGGGCTTAGGACTCTTCTCTCAGTCTTC
TTCCCCGGGCTTGAACCCGAAA

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FIGURE 299

MVLDDLFRVDKGGDPALIRETQEKRFKDPGLVDQLVKADSEWRRRCFRADNLNKLKNLCSKTIGEKMKKKEPVG
DDESVPENVLSFDDLTADALANLKVSQIKKVRLLIDEAILKCD AERIKLEAERFENLREIGNLLHPSVPISNDED
VDNKVERIWGDCTVRKKYSHVDLVVMVDGFEGEKGAVVAGSRGYFLKGVLVFLEQALIQYALRTLGSRGYIPIYT
PFFMRKEVMQEV AQLSQFDEELYKVIGKGSEKSDDNSYDEKYLIATSEQPIAALHRDEWLRPEDLP IKYAGLSTC
FRQEVGSHGRDTRGIFRVHQFEKIEQFVYSSPHDNKSWEMFEEMITTAE E FYQSLGIPYHIVNIVSGSLNHAASK
KLDLEAWFPGSGAFRELVSCSNCTDYQARRLRIRYGQTKKMDKVEFVHMLNATMCATTRTICAILENYQTEKGI
TVPEKLKEFMPPGLQELIPFVKPAPIEQEPSKKQKKQHEGSKKAAARDVTLENRLQNMEVTD A

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FIGURE 300

CAGAGTGCCCTTTCTCCCCGCTCTTCCCCCTCCCGGGAGCTGCCAGTACTTGACGTGGCGTCACCGCCCTCTAC
CCTCGCTTTGCGTGCGTGTTTGCGTACAGCGGAGGTGGCGGCGCGGGCAGGTCGGAGCTCGGAGCTGCTGCTTCT
GGTTCTCTTGTTGGCCACCGTCGCTGTCCGGCTGCCTTGGGCTGCCGAACAGACAAGGCGTGGGCCACAGCACCTC
AGAAGCCGACGCAGCTCGACGCAGGGGCCGGCAGGAGGTGGGCGATCGCGTGTCGGAGGGCGCCGCGCGGGCAG
GCGGGCGGGCGCCAGAGGGGGAAAGAGGCGGGGGCGGCGGGTCAAGCCGCTGGCCGGGCGGGCGGGGAATGTCGA
TGCCTGACGCGATGCCGCTGCCCGGGTTCGGGGAGGAGCTGAAGCAGGCCAAGGAGATCGAGGACGCCGAGAAGT
ACTCCTTCATGGCCACCGTCACCAAGGCGCCCAAGAAGCAAATCCAGTTTGCTGATGACATGCAGGAGTTCACCA
AATTCCCCACAAAACCTGGCCGAAGATCTTTGTCTCGCTCGATCTCACAGTCTCCACTGACAGCTACAGTTTACAG
CTGCATCTACACAGATAGCTCTGATGATGAGGTTTCTCCCGAGAGAAGCAGCAAACCAACTCCAAGGGCAGCA
GCAATTTCTGTGTGAAGAACATCAAGCAGGCAGAAATTTGGACGCCGGGAGATTGAGATTGCAGAGCAAGACATGT
CTGCTCTGATTTCACTCAGGAAACGTGCTCAGGGGGAGAAGCCCTTGGCTGGTGCTAAATAGTGGGCTGTACAC
ACATCACAGCCCAGACAGCGGTGTTGATTGAGACACTCTGTGCCCTGGGGGCTCAGTGCCGCTGGTCTGCTTGTA
ACATCTACTCAACTCAGAATGAAGTAGCTGCAGCACTGGCTGAGGCTGGAGTTGAGTGTTTCGCTTGAAGGGCG
AGTCAGAAGATGACTTCTGGTGGTGTATTGACCGCTGTGTGAACATGGATGGGTGGCAGGCCAACATGATCTTGG
ATGATGGGGGAGACTTAACCCACTGGGTTTATAAGAAGTATCCAAACGTGTTAAGAAGATCCGAGGCATTGTGG
AAGAGAGCGTGACTGGTGTTACAGGCTGTATCAGCTCTCCAAAGCTGGGAAGCTCTGTGTTCCGGCCATGAACG
TCAATGATTCTGTTACCAAACAGAAGTTTGATAACTTGTAAGTCTGCCGAGAATCCATTTTGGATGGCCTGAAGA
GGACCACAGATGTGATGTTTGGTGGGAACAAGTGGTGGTGTGTGGCTATGGTGAGGTAGGCAAGGGCTGCTGTG
CTGCTCTCAAAGCTCTTGGAGCAATTGTCTACATTACCGAAATCGACCCCATCTGTGCTCTGCAGGCCTGCATGG
ATGGGTTCAAGGTGGTAAAGCTAAATGAAGTCATCCGGCAAGTCGATGTCTGTAATAACTTGCACAGGAAATAAGA
ATGTAGTGACACGGGAGCACTTGGATCGCATGAAAAACAGTTGTATCGTATGCAATATGGGCCACTCCAACACAG
AAATCGATGTGACCAGCCTCCGCACTCCGGAGCTGACGTGGGAGCGAGTACGTTCTCAGGTGGACCATGTCATCT
GGCCAGATGGCAAACGAGTTGTCTCCTGGCAGAGGGTCGTCTACTCAATTTGAGCTGCTCCACAGTTCCACCT
TTGTTCTGTCCATCACAGCCACAACACAGGCTTTGGCACTGATAGAACTCTATAATGCACCCGAGGGGCGATACA
AGCAGGATGTGTAAGTTGCTTCCTAAGAAAATGGATGAATACGTTGCCAGCTTGCACTCTGCCATCATTGATGCC
ACCTTACAGAGCTGACAGATGACCAAGCAAAATATCTGGGACTCAACAAAAATGGGCCATTCAAACCTAATTATT
ACAGATACTAATGGACCATACTACCAAGGACCACTCCACCTGAACCACACACTCTAAAGAAATATTTTTAAGAT
AACTTTTATTTCTTCTTACTCCTTTCTCTTGATTTTTTCTCTATAATTTCAATCTTGTTTTTCTATCTCATTA
TCCAAGTTCTGCAGACCACACAGGAACCTGCTTCATGGCTCTTTAGATGAAATAGAAGTTCAGGGTCCCTCACTC
TAGTCACTAAAGAAGGATTTTACTCCCCAGCCAGAAAGGTGATTCTTCTCTTTACCATTCTGGGGACTTTAG
TCTTAATTAGGTACCTTATTAACAGGAAATGCTAAGGTACCTTCTCTGTGGAACAATCTGCAATGTCTAAATCGC
CTTAAAAGAGCCCATTTCTTAGCTGCTGAAATCAGTGCTCTTCACTTCTCAGAGAAGCAGGGATGGTACCTAC
CCGGCAGGTAGGTTAGATGTGGGTGGTGCATGTTAATTTCCCTTAGAAGTTCCAAGCCCTGTTTCTGCGTAAAG
GTGGTATGTCCAGTTCAGAGATGTGTATAATGAGCATGGCTGTGTAAGATCAGGAGGCCACTTGGATTATAGT
ATAGCCCTTCTCCACTCCCAACAGACTTGCTCATTTTTTCGAGTTTTTAACTAGACTACACTTATTTGAGTTTA
ATTTTGTCTCTAGGATTTATTTCTGTTGTCCAAAAAATAAAAAAAAAA

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FIGURE 301

MSMPDAMPLPGVGEELKQAKEIEDAEKYSFMATVTKAPKKQIQFADDMQEFTKFPTKTGRRSLRSISQSSTDSY
SSAASYTDSSDDEVSPREKQQTNSKGSSNFCVKNKQAEFGRREIEIAEQDMSALISLRKRAQGEKPLAGAKIVG
CTHITAQTAVLIETLCALGAQCRWSACNIYSTQNEVAAALAEAGVAVFAWKGESEDDFWWCIDRCVNMDGWQANM
ILDDGGDLTHWVYKKYPNVFKKIRGIVEESVTGVHRLYQLSKAGKLCVPAMNVNDSVTQKFDNLYCCRESILDG
LKRTTDMFGGKQVVVCGYGEVGKCCAALKALGAIVYITEIDPICALQACMDGFRVVKLNEVIRQVDVITCTG
NKNVVTREHLDRMKNSCIVCNMGHSNTEIDVTSLRPELTWERVRSQVDHVIWPDGKRVVLLAEGRLLNLS CSTV
PTFVLSITATTQALALIELYNAPEGRYKQDVYLLPKMDEYVASLHLP SFD AHL TELTDDQAKYLGLNKNGPFPK
NYRY

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FIGURE 302A

GCTTATGGCGGCGCTGGAGAGGGGGCGCTGAGCTGTTGGGTATGAAGTGTAACAGAACAGACTTTACCACCTGAA
ACTGCTGCTTCAAGTTCAGATCAGGCAAGGAACAAACCTCGTAACAACTAACAGACCAAGAGAGTACACTTA
AGTTGAAGACACAACACTTGATCTGAAACAAGAAGTTTGTGCCTACTCAACAGCTTTGAAAGAGCACTTCCCAAC
GCTGCTAGTAGTCTTTGTTTTCTTCAGTGCTGTACTGTGAGATTGCCCGGTACAGCAGCAGTTGTATTCTTTATT
AGCTTGGTAGATCATTCTCTCGCTCTTTTTTTAATACTAGCAACTTTCATCCTTTGAAACGTGTGCTGAAAA
AGAAGAATCAGCAAATACTACTGAAAGTGCAATATTTGAGTATCACTGCGAGATGAGCTTTGATCCAAACCTTCT
CCACAACAATGGACATAATGGGTACCCTAATGGTACTTCAGCAGCACTGCGTGAAACTGGGGTTATTGAAAACT
GTTAACCTCTTACGGATTATTTCAGTGTTTCAGAACGTCAAGCTAGACTTTTCTTCCACTGTTTCACAGTATAATGG
CAACCTGCAAGACTTAAAGTAGGAGATGATGTTGAATTTGAAGTATCATCGGACCGACGGACTGGGAAACCCAT
TGCTGTTAAACTGGTGGAAGATAAAACAAGAAATCCTCCCTGAAGAACGAATGAATGGACAAGTTGTGTGCGCTGT
TCCTCACAACCTTAGAGAGTAAATCTCCAGCTGCCCGGGTCAGAGTCCACAGGGAGTGTATGCTACGAACGTAA
TGGGGAAGTGTTTTATCTGACTTACACCCCTGAAGATGTGCAAGGGAACGTTTCAGCTGGAACCTGGAGATAAAAT
AAACTTTGTAATTGATAACAATAAACAATACTGGTGCTGTAAGTGCTCGCAACATTATGCTGTTGAAAAAGAAACA
AGCCCGCTGTGAGGGAGTAGTTTGTGCCATGAAGGAGGCATTTGGCTTTATTGAAAGAGGTGATGTTGTAAGA
GATATTCTTTCACTATAGTGAATTTAAGGGTGACTTAGAAACCTTACAGCCTGGCGATGATGTGGAATTCACAA
CAAGGACAGAAATGGTAAAGAAGTTGCAACAGATGTCAGACTATTGCCTCAAGGAACAGTCATTTTGAAGATAT
CAGCATTGAACATTTGAAGGAACGTAAACCAAGTTATCCCAAAGTACCCAGTAAAAACCAGAATGACCCATT
GCCAGGACGCATCAAAGTTGACTTTGTGATCCCTAAAGAACTTCCCTTTGGAGACAAAGATACGAAATCCAAGGT
GACCTGTGGAAGGTGACCATGTTAGGTTTAAATATTCAACAGACCGACGTGACAAATTAGAGCGAGCAACCAA
TATAGAAGTTCTGTCAAATACATTTTCAGTTCACTAATGAAGCCGAGAAATGGGTGTGATTGCTGCCATGAGAGA
TGTTTTTGGTTTCATCAAGTGTGTGGATCGTGATGTTCTGTATGTTCTTCCACTTCAGTGAAATCTGGATGGGAA
CCAGCTCCATATTGCAGATGAAGTAGAGTTTACTGTGGTTCTGTATGCTCTCTGCTCAAAGAAATCATGCTAT
TAGGATTAATAAACTTCCCAAGGGCACGGTTTCATTTCAATCCCATTCAGATCACCGTTTTCTGGGCACGGTAGA
AAAAGAAGCCACTTTTCCAATCCTAAAACCACTAGCCCAAATAAAGGCAAAGAGAAGGAGGCTGAGGATGGCAT
TATTGCTTATGATGACTGTGGGGTGAACTGACTATTGCTTTTCAAGCCAAGGATGTGGAAGGATCTACTTCTCC
TCAAATAGGAGATAAGGTTGAATTTAGTATTAGTGACAAACAGAGGCTTGACAGCAGGTTGCAACTTGTGTGCG
ACTTTTAGGTCGTAATTCTAACTCCAAGAGGCTCTTGGGTTATGTGGCAACTCTGAAGGATAATTTGGATTAT
TGAAACAGCCAAATCATGATAAGGAATCTTTTTCCATTACAGTGAGTTCTCTGGTGATGTTGATAGCTGGAAC
GGGGACATGTGCGAGTATAGCTTGTCCAAAGGCCAAAGGCAACAAAGTCAGTGCAAAAAAGTGAACAAAACACA
CTCAGTGAATGGCATTACTGAGGAAGCTGATCCACCATTTACTCTGGCAAAGTAATTCGCCCCCTGAGGAGTGT
TGATCCAACACAGACTGAGTACCAAGGAATGATTGAGATTGTGGAGGAGGCGATATGAAAGGTGAGGCTATCC
ATTTGGCATCGTTGGGATGGCCAACAAAGGGGATTGCCTGCAGAAAGGGGAGAGCGTCAAGTTCCAATTGTGTGT
CCTGGGCCAAAATGCACAACTATGGCTTACAACATCACACCCCTGCGCAGGGCCACAGTGGGAATGTGTGAAAGA
TCAGTTTGGCTTCATTAACATATGAAGTAGGAGATAGCAAGAAGCTCTTTTCCATGTGAAAGAAGTTCAGGATGG
CATTGAGCTACAGGCAGGAGATGAGGTGGAGTTCTCAGTGATTCTTAATCAGCGCACTGGCAAGTGCAGCGCCTG
TAATGTTTGGCGAGTCTGTGAGGGCCCCAAGGCTGTGTCAGCTCCTCGACCTGATCGGTTGGTCAATCGCTTGAA
GAATATCACTCTGGATGATGCCAGTGCTCCTCGCCTAATGGTTCTTCGTACAGCCAAGGGGACCAGATAACTCAAT
GGGGTTTGGTGACAGAAAGAAAGATCCGTCAAGCTGGTGTATTGACTAAACCATCCACAAAGCACACCATTAAT
CCACTATGATCAAGTTGGGGGGAATCTGGTGAAGGTTCTGAATATCTCCCTCTTCACTCCCTCCCGAAATCTGGA
ATACTTATTCTATTGAGCTATTACACCAGTTTTTAACACCTTCTCGTGTTATGTTTAAAAAATAAATAAATTTA
AGAAAACCATTTTAAATAATGCACAGTTGCAGCCTGGAAAACTTAAGGTGGCGCCTTATAGTATCAATTTTAGG
AGCTTTATTGGTGCATTTAACGCAACTGGTAATTGCAGAATCCACTTTGCCTGTGTAAGTGAAAAATATAGACT
GTTATCTGTTGGCCCTATGAAATCTGCACTTTTTCAATATATACTCTACCTTCATTAATTACTTCTGGCAAGAT
GTTCTGCCTTAGCACTCAGTTGCATTCTTTTCTTTTCTTCTGTTTATTGCTTTAATTCTGAGGACCATAT
GAGGGTAGAATATATTATCTTTTAAAAAATTACAAAAATTTGTATAGGCAAAACCATTTCTTAAAGTTGATGGCCAA
ATTTTAAATGTTATTTTTCATATCATTATAATCTTGTCACAATCCACTTAAAGAAGTTTGGTTATATTTCAGT
GAAAATTTCTCCAGAGTAGGTTTTTTTTCTGTTGGTTGGGGGTAACCTTTACTACAATTAGTAAGTATGGTGCA
GAATTTTCATGCAAAATGAGGAGTGCCAGCAGTGTGATAATTTAAACATAATTTAAACAAAAACAAAAAAATGAATG

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FIGURE 302B

CACAACTTGCTGCTGCTTAGATCACTGCAGCTTCTAGGACCCGGTTTCTTTTACTGATTTAAAAACAAAACAAA
AAAAATAAAAAAGTTGTGCCTGAAATGAATCTTGTTTTTTTTTATAAGTAGCCGCCTGGTTACTGTGTCCTGTA
AAATACAGACACTTGACCCCTGGTGTAGCTTCTGTTCAACTTTATATCACGGGAATGGATGGGTCTGATTTCTTG
GCCCTCTTCTGAATTGGCCATATACAGGGTCCCTGGCCAGTGGACTGAAGGCTTTGTCTAAGATGACAAGGGTC
AGCTCAGGGGATGTGGGGGAGGGCGGTTTTATCTTCCCCCTTGTCGTTTGAGGTTTGTCTCTGGGTAAAGAGG
CCGTTTATCTTTGTAAACACGAAACATTTTGCCTTCTCCAGTTTCTGTTAATGGCGAAAGAATGGAAGCGAAT
AAAGTTTACTGATTTTGTGAGACT

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FIGURE 303

MSFDPNLLHNNHNGYPNGTSAALRETGVIEKLLTSYGFIQCSEARLFFHCSQYNGNLQDLKVGDDVEFEVSS
DRRTGKPIAVKLVKIKQEILPEERMNGQVVCAPHNLESKSPAAPGQSPTGSVCYERNGEVFLTYTPEDVEGNV
QLETGDKINFVIDNNKHTGAVSARNIMLLKKKQARCQGVVCMKEAFGFIERGDVVKEIFFHYSEFKGDLLETLP
GDDVEFTIKDRNGKEVATDVRLLPQGTIVIFEDISIEHFEGTVTKVIPKVPSKNQNDPLPGRIKVDVIPKELPFG
DKDTKSKVTLLLEGDHVRFNISTDRRKLERATNIEVLSNTFQFTNEAREMGVIAAMRDGFGFIKCVDRDVRMFFH
FSEILDGNQLHIADEVEFTVVPDMLSAQRNHAIKIKLPKGTVSFHSRFLGTVEKEATFSNPKTSPNKGK
EKEAEDGIIAYDDCGVKLTIAFAQKDVEGSTSPQIGDKVEFSISDKQRPQQVATCVRLGRNSNSKRLGYVAT
LKDNFGFIETANHDKEIFFHYSEFSGDVDSLELGDMVEYSLSKGKGNKVS AEKVNTHSVNGITEEADPTIYSGK
VIRPLRSVDPTQTEYQGMIEIVEEGDMKGEVYPFGIVGMANKGDCLQKGESVKFQLCVLGQNAQTMAYNITPLRR
ATVECVKDQFGFINYEVGDSKKLFFHVKEVQDGIELQAGDEVEFSVILNQRTGKCSACNVWRVCEGPKAVAAPRP
DRLVNRLKNITLDDASAPRLMVLQPRGPDNSMGFGAERKIRQAGVID

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FIGURE 304

GCTGAAGATGGGAGCCACTCTCAAAATCATGCTGGATAACACCTACATGAAAAAGTGTGACGAGAACATCCTGTG
GCTGGACTACAAGAACATCTGCAAGGTGATGGAAGTGGGCAGCAAGATCTACGTGGATGATGGGCTTATTTCTCT
CCAGGTAAAGCAGAAAGGTGCTGACTTCCTGGTGACGGAGGTGGAACTGGTGGTTCCTCGGGCAGCAAGAAGGG
TGTGAACCTTCCTGGGGCTGCTGTGGACTTGCCTGCTGTGTCAGAGGACATCCAGGACCTGAATTTTGGGGTCGA
GCAGGATGTCGATATGGTGTGTTGCGTCGTTTCATCCGCAAGGCATCIGATGTCCATGAAGTTAGGGAGGCCCTGGG
AGAGAAGGGAAAGAAAACACTCCACCCTCCACCTTCCATTTTCCCCCACTACTGCAGCACCTCCGGGCCTGTTGC
TATAGAGCCTACCTGTATATCAATAAACAACAGCTGAAG

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FIGURE 305

MGATLKIMLDNTYMKKCDENILWLDYKNICKVMEVGSKIYVDDGLISLQVKQKGADFLVTEVETGGSSGSKKGVN
LPGAAVDLPAVSEDIQDLNFGVEQDVMVFASFIRKASDVHEVREALGEKGKCTLHPPPSIFPHYCSTSGPVAIE
PTCISINNS

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FIGURE 306

AGAAGAAGCTGGCCAAGGATATGGGAGCAACCACCATGGACCAGAAGTCTCTCTGGGCAGGTGTAGTGGTCTTGC
TGCTTCTCCAGGGAGGATCTGCCTACAACTGGTTTGCTACTTTACCAACTGGTCCCAGGACCGGCAGGAACCAG
GAAAATTCACCCCTGAGAATATTGACCCCTTCCTATGCTCTCATCTCATCTATTTCATTGCGCAGCATCGAAAAACA
ACAAGGTTATCATCAAGGACAAGAGTGAAGTGATGCTCTACCAGACCATCAACAGTCTCAAAACCAAGAATCCCA
AACTGAAAATTCTCTTGTCCATTGGAGGGTACCTGTTTGGTTCCAAAGGGTTCCACCCTATGGTGGATTCTTCTA
CATCACGCTTGGAATTCATTAACCTCCATAATCCTGTTTCTGAGGAACCATAACTTTGATGGACTGGATGTAAGCT
GGATCTACCCAGATCAGAAAGAAAACACTCATTTCACTGTGCTGATTGATGAGTTAGCAGAAGCCTTTCAGAAGG
ACTTCACAAAATCCACCAAGGAAAGGCTTCTCTTGACTGCGGGCGTATCTGCAGGGAGGCAGATGATTGATAACA
GCTATCAAGTTGAGAACTGGCAAAGATCTGGATTTCATCAACCTCCTGTCCTTTGACTTCCATGGGTCTTGGG
AAAAGCCCCCTTACTACTGGCCACAACAGCCCTCTGAGCAAGGGGTGGCAGGACAGAGGGCCAAGCTCCTACTACA
ATGTGGAATATGCTGTGGGGTACTGGATACATAAGGGAATGCCATCAGAGAAGGTGGTCATGGGCATCCCCACAT
ATGGGCACTCCTTCACACTGGCCTCTGCAGAAACCACCGTGGGGGCCCCTGCTCTGGCCCTGGAGCTGCTGGAC
CCATCACAGAGTCTTCAGGCTTCCTGGCCTATTATGAGATCTGCCAGTTCCTGAAAGGAGCCAAGATCACGCGCC
TCCAGGATCAGCAGGTTCCCTACGCAGTCAAGGGGAACCAAGTGGGTGGGCTATGATGATGTGAAGAGTATGGAGA
CCAAGGTTCACTTCTTAAAGAATTTAAACCTGGGAGGAGCCATGATCTGGTCTATTGACATGGATGACTTCACTG
GCAAATCCTGCAACCAGGGCCCTTACCCTCTTGTCCAAGCAGTCAAGAGAAGCCTTGGCTCCTTGTGAAGGATTA
ACTTACAGAGAAGCAGGCAAGATGACCTTGCTGCCTGGGGCCTGCTCTCTCCAGGAATTCATGTGGGATTCC
CCTTGCCAGGCTGGCCTTTGGATCTCTCTCCAAGCCTTTCCTGACTTCCTCTTAGATCATAGATTGGACCTGGT
TTTGTCTTCTGCAGCTGTTGACTTGTGTCCTGAAGTACAATAAAAAAATTCATTTTGCTCCAGTA

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FIGURE 307

MDQKSLWAGVVVLLLLQGGSAYKLVCFNWSQDRQEPGKFTPENIDPFLCSHLIYSFASIENNKVVIKDKSEVM
LYQTINSLKTKNPKLKILLSIGGYLFGSKGFHPMVDSSSTRLEFINSIILFLRNHNFDGLDVSWIYPDQKENTHF
TVLIHELAEAFQKDFTKSTKERLLLTAGVSAGRQ MIDNSYQVEKLAKDLDFINLLSFDFHGSWEKPLITGHNSPL
SKGWQDRGPSSYYNVEYAVGYWIIHKGMPSEKVVMGIPTYGHSFTLASAETTVGAPASGPGAAGPITESSGFLAYY
EICQFLKGAKITRLQDQQVPYAVKGNQWVGYYDDVKSMETKVQFLKNLNLGGAMIWSIDMDDFTGKSCNQGPYPLV
QAVKRSLGSL

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FIGURE 308

GGGGAGACTTGTGAGCGGCCATCTTGGTCCTGCCCTGACAGATTCTCCTATCGGGGTCACAGGGACGCTAAGATT
GCTACCTGGACTTTCGTTGACCATGCTGTCCCGGGTGGTACTTTCCGCCGCCGCCACAGCGGCCCCCTCTCTGAA
GAATGCAGCCTTCCTAGGTCCAGGGGTATTGCAGGCAACAAGGACCTTTCATACAGGGCAGCCACACCTTGTCCC
TGTACCACCTCTTCTCTGAATACGGAGGAAAAGTTCGTTATGGACTGATCCCTGAGGAATTCTTCCAGTTTCTTTA
TCCTAAAACTGGTGTAACAGGACCCTATGTACTCGGAACTGGGCTTATCTTGTACGCTTTATCCAAAGAAATATA
TGTGATTAGCGCAGAGACCTTCACTGCCCTATCAGTACTAGGTGTAATGGTCTATGGAATTAATAATATGGTCC
CTTTGTTGCAGACTTTGCTGATAAACTCAATGAGCAAAAACCTTGCCCACTAGAAGAGGCGAAGCAGGCTTCCAT
CCAACACATCCAGAATGCAATTGATACGGAGAAGTCACAACAGGCACTGGTTCAGAAGCGCCATTACCTTTTTGA
TGTGCAAAGGAATAACATTGCTATGGCTTTGGAAGTTACTTACCGGGAACGACTGTATAGAGTATATAAGGAAGT
AAAGAATCGCCTGGACTATCATATATCTGTGCAGAACATGATGCGTCGAAAGGAACAAGAACACATGATAAATTG
GGTGGAGAAGCACGTGGTGCAAAGCATCTCCACACAGCAGGAAAAGGAGACAATTGCCAAGTGCAATTGCGGACCT
AAAGCTGCTGGCAAAGAAGGCTCAAGCACAGCCAGTTATGTAATGTATCTATCCCAATTGAGACAGCTAGAAAC
AGTTGACTGACTAAATGGAACTAGTCTATTTGACAAAGTCTTTCGTGTGGTGTCTACTGAAGTTATAGTTTA
CCCTTCCTAAAAATGAAAAGTTTGTTCATATAGTGAGAGAACGAAATCTCTATCGGCCAGTCAGATGTTTCTCA
TCCTTCTTGCTCTGCCTTTGAGTTGTTCCGTGATCACTTCTGAATAAGCAGTTTGCCTTTATAAAAACTTGCTGC
CTGACTAAAGATTAAACAGGTTATAGTTTAAATTTGTAATTAATCTACCATCTTGCAATAAAGTGACAATTGAAT
AAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 309

MLSRVVL SAAATAAPSLKNA AFLGPGVLQATRTFHTGQPHLVPVPPLPEYGGKVRYGLIPEEFFQFLYPKTGVTG
PYVLGTGLILYALSKEIYVISAETFTALSVLGVMVYGIKKYGPFVADFADKLNEQKLAQLEEAQASIQHINAI
DTEKSQQALVQKRHYLF DVQRNNIAMALEVTYRERLYRVYKEVKNRLDYHISVQNMRRKEQEHMINWVEKHVVQ
SISTQQEKETIAKCIADLKLLAKKAQAQPVM

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FIGURE 310

GCGGGGAGCCGGCCCGGAGCGCAGTTTCCAGTGGGGCCGGGGTTTCACCCGGGCCCTCTCTGTTTGAACCGAACC
CGACAAATGGGCGCATGACGATGGAGAGCAGGGAAATGGACTGCTATCTCCGTCGCCTCAAACAGGAGCTGATGT
CCATGAAGGAGGTGGGTGATGGCTTACAGGATCAGATGAACTGCATGATGGGTGCACTGCAAGAACTGAAGCTCC
TCCAGGTGCAGACAGCACTGGAACAGCTGGAGATCTCTGGAGGGGGTCTGTGCCAGGCAGCCCTGAAGGTCCCA
GGACCCAGTGGCAGCACCCTTGTGGGAGGGTGGCAGAGGTCTGCCAGGCCACAGTCTGTTCCCCCTCCAGTC
AACCTTCTCTTGGCAGCAGCACCAAGTTTCCATCCCATAGGAGTGTCTGTGGAAGGGATTAGCCCCCTTGCCCA
GGACACAGCCACATCAAAGCTGTGCTCAGCAGGGGCCAGAGCGAGTGAACCGGATGACTGGACCTCCACGTTGA
TGTCCCGGGGCCGAATCGACAGCCTCTGGTGTTAGGGGACAACGTTTTTGCAGACCTGGTGGGCAATTGGCTAG
ACTTGCCAGAACTGGAGAAGGGTGGGGAGAAGGGTGAGACTGGGGGGGCACGTGAACCCAAAGGAGAGAAAGGCC
AGCCCCAGGAGCTGGGCCGCAGGTTTCGCCCTGACAGCAAACATCTTTAAGAAGTTCTTGCGTAGTGTGCGGCCTG
ACCGTGACCGGCTGCTGAAGGAGAAGCCAGGCTGGGTGACCCCATGGTCCCTGAGTCCCGAACCGGCCGCTCAC
AGAAGGTCAAGAAGCGGAGCCTTTCCAAGGGCTCTGGACATTTCCCTTCCCAGGCACCGGGGAGCACAGGCGAG
GGGAGAATCCCCCACAAGCTGCCCCAAGGCCCTGGAGCACTCACCTCAGGATTGATATTAACACAGCTGTTT
GGGTCTGAATCCTAGAGACAGAAAGTTGACTGAGCCTGAAAGGGCCAGGTCCCAGTGCTGGGCCCCTGGGGAGGA
GGGAGGGTGGGCGGTATGGCTCTCGAAAGCCCACTCCAAGTTCCCTTTCCCCCAGAAAGCGGGGAGAAGCCAGAG
TTCTTGGCTCAGGACTGAAGGGAAGGTGGTTGGGAGAGGCTGTCTTGGGGGCTAGCTGGTGGAGGAGGTAAGAGT
AGCTGGAGAGTGAGCTGTGCGTGTGTGTGTGTGTGTGTCATGTGTGTGTCTGTCTGGCATGCATGCACTCACTT
TGGGGCTGGAGGTGACAGTAGGTGAGGGCAGAGGAGGAGATCAGAAAATCCCTCTGACATCTCCACTGCCCCAA
AGACCTCCGTGAACATTCTGTATGGAAAAGAGCCCTGGAGCATCAGGTTCCCAGATAGGCCCCCAATAAAGA
CCTGTCTATGGCTCTCCAA

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FIGURE 311

MTMESREMDCYLRRLKQELMSMKEVGDGLQDQMNCMMGALQELKLLQVQTALQLEISGGGPVPGSPEGPRTQCE
HPCWEGGRGPARPTVCSPSSQPSLGSSTKFFPSHRSVCGRDLAPLPRTQPHQSCAQQGPERVEPDDWTSTLMSRGR
NRQPLVLGDNVFNADLVGNWLDLPELEKGGEKGETGGAREPKGEKGQPQELGRRFALTANIFKKFLRSVRPDRDL
LKEKPGWVTPMPESRTGRSQVKKRSLSKGSGHFFPFGTGEHRRGENPPTSCPKALEHSPSGFDINTAVWV

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FIGURE 312A

GGCACGAGGCTGGGGCGCAGAGCAGCGGGGGAGGAGGCGGACACGTGGCAACAGCGGTAGCAGCCCGGGCGGCG
GCAGCAACAGCGGCGGCGGCATCGGCCGAGCCGCCGGCGCCCTCCACCCCTCCCGCCCCGCGGCAGCCCTAGC
TCCCTCCACTTGGCTCCCCTGGTCCCGCTCGCTCGGCCGGGAGCTGCTCTGTGCTTTTCTCTCTGATTCTCCAGC
GACAGGACCCCGGCGCGGCGGCACTGAGCACC GCCACCATGGGAAGGGGGTTGGACGTGATAAGTATGAGCCTGCA
GCTGTTTCAGAACAGGTGATAAAAAGGGCAAAAAGGGCAAAAAGACAGGGACATGGATGAAGTGAAGAAAGAA
GTTTCTATGGATGATCATAAACTTAGCCTTGATGAACCTCATCGTAAATATGGAACAGACTTGAGCCGGGGATTA
ACATCTGCTCGTGACAGCTGAGATCCTGGCGCGAGATGGTCCCAACGCCCTCACTCCCCCTCCCACTACTCCTGAA
TGGATCAAGTTTTGTGCGCAGCTCTTTGGGGGGTTCTCAATGTTACTGTGGATTGGAGCGATTCTTTGTTTCTTG
GCTTATAGCATCCAAGCTGCTACAGAAGAGGAACCTCAAAACGATAATCTGTACCTGGGTGTGGTGCTATCAGCC
GTTGTAATCATAACTGGTTGCTTCTCCTACTATCAAGAAGCTAAAAGTTCAAAGATCATGGAATCCTTCAAAAAC
ATGGTCCCTCAGCAAGCCCTTGTGATTGGAATGGTGAGAAAATGAGCATAAATGCGGAGGAAGTTGTGGTTGGG
GATCTGGTGGAAGTAAAAGGAGGAGACCGAATTCCTGCTGACCTCAGAAATCATATCTGCAAAATGGCTGCAAGTG
GATAACTCCTCGCTCACTGGTGAATCAGAACCCAGACTAGGTCTCCAGATTTCACAAATGAAAACCCCTGGAG
ACGAGGAACATTGCCTTCTTTCAACCAATTGTGTTGAAGGCACCGCACGTGGTATTGTTGTCTACACTGGGGAT
CGCACTGTGATGGGAAGAATTGCCACACTTGCTTCTGGGCTGGAAGGAGGCCAGACCCCATGTCTGCAGAAAT
GAACATTTTATCCACATCATCACGGGTGTGGCTGTGTTCTGGGTGTGCTTCTTCTATCCTTCTCTCATCCTT
GAGTACACCTGGCTTGAGGCTGTATCTTCTCATCGGTATCATCGTAGCCAATGTGCCGGAAGGTTTGCTGGCC
ACTGTACGGTCTGTCTGACACTTACTGCCAAACGCATGGCAAGGAAAACTGCTTAGTGAAGAACTTAGAAGCT
GTGGAGACCTTGGGGTCCACATCCACCATCTGCTCTGATAAACTGGAACCTGACTCAGAACCCGATGACAGTG
GCCACATGTGGTTTGACAATCAAATCCATGAAGCTGATACGACAGAGAATCAGAGTGGTGTCTCTTTTGACAAG
ACTTCAGCTACCTGGCTTGCTCTGTCCAGAATTGCAGGTCTTTGTAAACAGGGCAGTGTTCAGGCTAACAGGAA
AACCTACCTATTCTTAAGCGGGCAGTTGCAGGAGATGCCCTGTGAGTCAGCACTCTTAAAGTGATAGAGCTGTGC
TGTGGTTCGGTGAAGGAGATGAGAGAAAGATACGCCAAAATCGTTCGAGATACCCTTCAACTCCACCAAGTAC
CAGTTGTCTATTTCATAAGAACCCCAACACATCAGAGCCCCAACACCTGTTGGTGATGAAGGGCGCCCCAGAAAGG
ATCCTAGACCGTTGCAGCTCTATCCTCCTCCACGGCAAGGAGCAGCCCTGGATGAGGAGCTGAAAGACGCCTTT
CAGAACGCCTATTTGGAGCTGGGGGGCCTCGGAGAACGAGTCTTAGGTTTCTGCCACCTCTTTCTGCCAGATGAA
CAGTTTCTGAAGGTTCCAGTTTGACACTGACGATGTGAATTTCCCTATCGATAATCTGTGCTTTGTTGGGCTC
ATCTCCATGATTGACCTCCACGGGCGGCCGTTCTGATGCCGTGGGCAATGTGGAAGTGCTGGAATTAAGGTC
ATCATGGTCACAGGAGACCATCCAATCACAGCTAAAGCTATTGCCAAAGGTGTGGGCATCATCTCAGAAGGCAAT
GAGACCGTGGAAGACATTGTGCCCCGCTCAACATCCCAGTACGCCAGGTGAACCCAGGGATGCCAAGGCCTGC
GTAGTACACGGCAGTGATCTAAAGGACATGACCTCCGAGCAGCTGGATGACATTTTGAAGTACCACACTGAGATA
GTGTTTGCCAGGACCTCCCTCAGCAGAAGCTCATCATTTGTGGAAGGCTGCCAAAGACAGGGTGCTATCGTGGCT
GTGACTGGTGACGGTGTGAATGACTCTCCAGCTTTGAAGAAAGCAGACATTGGGGTTGCTATGGGGATTGCTGGC
TCAGATGTGTCCAAGCAAGCTGCTGACATGATTCTTCTGGATGACAACTTTGCCTCAATTGTGACTGGAGTAGAG
GAAGGTGCTGTGATCTTTGATAACTTGAAGAAATCCATTGCTTATACCTTAACCAGTAACATTCGCCGAGATCACC
CCGTTCTGATATTTATTATGCAAACATTCCACTACCACTGGGGACTGTCACCATCCTCTGCATTGACTTGGGC
ACTGACATGGTTTCTGCCATCTCCCTGGCTTATGAGCAGGCTGAGAGTGACATCATGAAGAGACAGCCAGAAAT
CCCAAAACAGACAAACTTGTGAATGAGCGGCTGATCAGCATGGCCTATGGGCAGATTGGAATGATCCAGGCCCTG
GGAGGCTTCTTTACTTACTTTGTGATTCTGGCTGAGAACGGCTTCTCCCAATTCACCTGTTGGGCCCTCCGAGTG
GACTGGGATGACCGCTGGATCAACGATGTGGAAGACAGCTACGGGCAGCAGTGGACCTATGAGCAGAGGAAAATC
GTGGAGTTACCTGCCACACAGCCTTCTTCGTGATATCGTGGTGGTGCAGTGGGCCGACTTGGTCTATCTGTAAG
ACCAGGAGGAATTCGGTCTTCCAGCAGGGGATGAAGAAACAGATCTTGATATTTGGCCTCTTTGAAGAGACAGCC
CTGGCTGCTTTCTTTCTACTGCTTCTGCTGGAATGGGTGTTGCTCTTAGGATGTATCCCTCAAACCTACCTGGTGG
TTCTGTGCTTCCCTACTCTTCTCATCTTCGTATATGACGAAGTCAGAAAATCATCATCAGGCGACGCCCT
GGCGGTGGGTGGAGAAGGAAACCTACTATTAGCCCCCGTCTGCACGCCGTGGAGCATCAGGCCACACACTCT
GCATCCGACACCCACCCCTCTTTGTGTACTTCAGTCTTGGAGTTTGGAACTCTACCCTGGTAGGAAAGCACCGC
AGCATGTGGGGAAGCAAGACGCTCTGGAATGAAGCATGTAGCTCTATGGGGGAGGGGGAGGGCTGCCTGAAAA
CCATCCATCTGTGGAATGACAGCGGGGAAGGTTTTTATGTGCCTTTTTGTTTTTGTAAAAAGGAACACCCGGA

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FIGURE 312B

AAGACTGAAAGAATACATTTTATATCTGGATTTTACAAATAAAGATGGCTATTATAATGGAAAAAAAAAAAAAA
AAAAA

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FIGURE 313

MGKGVGRDKYEPAAVSEQGDKKGGKKGKDRDMDELKKEVSMDDHKLSLDELHRKYGTDLSRGLTSARAAEILARD
GPNALTTPPTTPEWIKFCRQLFGGFSMLLWIGAILCFLAYSIQAATEEEPQNDNLYLGVVLSAVVIITGCFSYQ
EAKSSKIMESFKNMVPQQALVIRNGEKMSINAEVVVGDLVEVKGGDRIPADLRISANGCKVDNSSLTGESEPO
TRSPDFTNENPLETRNIAFFSTNCVEGTARGIVVYTGDRVTMGRIATLASGLEGGQTPIAAEIEHFIHIITGVAV
FLGVSFFILSLILEYTWLEAVIFLIGIIVANVPEGLLATVTVCLTLTAKRMARKNCLVKNLEAVETLGSTSTICS
DKTGTLTQNRMTVAHMFQDNQIHEADTTENQSGVSFDKTSATWLALSRIAGLCNRAVFQANQENLPILKRAVAGD
ASESALLKCIELCCGSVKEMRERYAKIVEIPFNSTNKYQLSIHKNPNTSEPQHLLVMKGAPERILDRCSSILLHG
KEQPLDEELKDAFQDAYLELGGGLGERVLGFCHFLPDEQFPEGFQFDTDDVNFPIDNLCFVGLISMIDPPRAAVP
DAVGKCRSAGIKVIMVTGDHPITAKAIAKGVGIISENETVEDIAARLNIPVSQVNPRDAKACVVHGSDDLKDMTS
EQDDILKYHTEIVFARTSPQQKLIIVEGCQRQGAIVAVTGDGVNDSPALKKADIGVAMGIAGSDVSKQAADMIL
LDDNFASIVTGVEEGRLIQDNLKKSIAYTLTSNIPEITPFLIFIANIPLPLGTVTILCIDLGTDMVPAISLAYE
QAESDIMKRQPRNPKTDKLVNERLISMAYGQIGMIQALGGFFTYFVILAENGFLPIHLLGLRVDWDRWINDVED
SYGQQWTYEQRKIVEFTCHTAFFVSIVVQWADLVICKTRRNSVFQGMKNKILIFGLFEETALAFLSYCPGMG
VALRMYPLKPTWWFCAFPYSLIFVYDEVKLIIRRRPGGWVEKETYY

FIGURE 314A

TTCCAAAACACTGTTCTCTGGAGCTATAAGTTGGATTGCCAGAAATGAGAGATTAGGAGCTGGGAGAAGAGGAAGCGC
CTTGTTGTTGTGCTCTCTGGAGGCTGCCGACATGAAGTGCTTTTTCCCGGTGCTGAGCTGTCTGGCTGTGCTGGGT
GTGGTGTCAGCACAGCGGCAGGTACCGTTTCAGGAAGGACCCTTGTAACGCACGGAGGGCTCCCACATCACTATC
TGGTGCAATGTGAGTGGCTACCAGGGACCTTCTGAGCAGAATTTCCAGTGGTCCATTTACCTGCCTTCGTGCGCA
GAGCGAGAGGTGCAGATCGTCAGCACCATGGACTCTTCCTTCCCTATGCCATCTACACCAGCGCGTCCGCGGA
GGGAAGATCTTCATAGAAAGAGTCCAGGGGAACCAACCCTATTGCACATCACAGATCTTCAGGCCCGGGATGCC
GGGAGTATGAATGCCACACACCCAGCACTGATAAGCAATACTTTGGGAGTTACAGTGCAAAGATGAACCTAGTG
GTGATCCCACTCCCTGCAGACCACTGCCATGCCCCAGACTCTGCACAGAGTGGAGCAGGACCCGCTGGAGCTC
ACTTGTGAGGTGGCCTCAGAGACCATTTCAGCACAGCCACCTGTCTGTGGCCTGGCTCCGGCAGAAAGTTGGCGAG
AAGCCCGTGGAGGTCATCTCCCTGAGCCGAGATTTTCATGCTTCACTCCAGCAGCGAATATGCCAGAGGCAGAGC
CTGGGGGAGGTGCGGCTGGACAAGCTGGGGAGGACCACCTTCCGCCTCACCATCTTCCACCTGCAGCCTTCTGAC
CAGGGCGAATCTACTGCGAGGCCGCCGAGTGGATCCAGGATCCGGATGGGTCTGGTATGCTATGACCCGAAAG
CGTTCGAGGGAGCCGTGGTCAACGTCCAGCCAAGTACAAAGAATTCACTGTTGGCTGGAGACAGAGAAGCGG
CTGCACACGGTGGGCGAGCCGGTGGAGTTCAGATGCATCCTGGAGGCTCAGAATGTTCCCGACCCTTACTTTGCT
GTCTCCTGGGCCTTCAACAGCTCGCTCATCGCCACCATTGGGTCTTAACGCTGTGCTGTCTCAACAGCGAATTT
GCTCACCGGGAAGCCAGGGGACAGCTTAAGGTGGCCAAAGAGAGCGACAGTGTCTTTGTGCTGAAGATCTACCAC
CTCCGCCAGGAAGATAGCGGGAAATACAAC TGCCGGGTGACTGAGCGAGAGAAAACCGTGACCGGGGAATTCATT
GATAAGGAGAGCAAGCGTCCCAAGAACATCCCATCATAGTCTCCCCCTCAAGAGCAGCATCTCCGTGGAGGTG
GCCAGCAATGCCAGCGTCATCCTTGAGGGCGAGGACCTGCGCTTCTCCTGCAGTGTCCGCACGGCAGGCAGGCGG
CAGGGTCGCTTCTCTGTCTATCTGGCAGCTTGTGGACAGGCAGAACC GCCGACAGCAATATCATGTGCTAGACCGG
GATGGCACCGTGCAGCCAGGCTCGTCTTACTGGGAGCGCAGCAGCTTTGGGGGCGTCCAGATGGAGCAGGTGCAG
CCCAACTCGTTTCAGCCTGGGCATCTTCAACAGCAGGAAGGAGGACGAGGGCCAGTATGAATGCCATGTGACTGAA
TGGGTGCGGGCAGTGGATGGCGAGTGGCAGATTGTTGGGGAGCGCCGGGGCCAGCACTCCCATCTCCATCACAGCT
CTTGAAATGGGCTTCGCACTCACAGCCATCTCCCGGACACCGGGGGTGACCTACAGCGACTCCTTTGACTTGCAG
TGATCATCAAACCCCACTACCCTGCCTGGGTCCCCGTGTCGGTGACATGGCGGTTCCAGCCGGTGGGCACGGTG
GAGTTCATGACTTGGTGACCTTACCCGGGACGGAGGGGTCCAGTGGGGGGACAGGTCTCCAGCTTCCGAACC
CGAAGTCCCATCGAGAAGGCTGAGTCCAGCAACAACGTCCGCCAAGCATCAGCCGAGCCAGTGACACGGAAGCA
GGCAAGTACCAGTGTGTGGCAGAGCTGTGGCGGAAGAACTACAACAACACCTGGACGCGACTGGCGGAGAGGACC
TCAACCTGCTGGAGATCAGGGTGTGTCAGCCAGTGAGAAAGCTGCAGGTGAGCAAATCGAAGAGGACCCCTCACC
CTGGTGGAAAACAAGCCATTCACTTGAAGTGTCTCAGTCAAGTCTCAGACTAGCCAGAACTCCCCTTTGCGGTG
CTCTGGTATGTCCACAAGCCCTCGGATGCCGATGGCAAGCTTATCCTGAAGACCACCCACAACCTCCGCTTTGAA
TACGGTACTTACGCCGAGGAGGAGGGCTGAGAGCCAGGCTCCAGTTTGAGAGGCATGTGTGCGGGGGCCTGTTT
AGCCTACCCGTCCAGAGAGCCGAGGTTCAGCGACAGCGGCAGCTACTACTGCCAGCTGGAGGAGTGGCTGTGAGC
CCCAACTACGCCTGGTACAAGCTGGCAGAGGAGGTTTCTGGGCGCACAGAAGTCACTGTGAACAGCCAGACAGC
CGCTCAGGCTCAGCCAAAGCCAGGGGAACCTGTGCGTTCTGGAGACCCGGCAGGTACAGCTGGAGTGTGTGGTT
CTCAACGCCACCAAGCATAACTCCAGCTCATGTGTTGGAATGGTTTGTATGGAAGCCCAACCACCCTGAGCGGGAG
ACTGTGGCCCGCTTGAGCCGTGACGCCACCTTCCACTATGGAGAGCAGGCAGCCAAGAACAATCTGAAGGGGCGG
CTGCATTTGGAGAGTCTTCCCCCGGCTGTACCGTCTCTTCATCAGAACGTGGCTGTGTCAGGACAGCGGGACC
TACAGCTGCCATGTGGAGGAGTGGCTGCCAGCCCACTGGCATGTGGTATAAGCGGGCAGGAGGACCCGTGGG
CAGACAGCTCTGACAGTCAATGCGACCAGATGCTTCCCTGACAGGTGGACACAGAGTGGTCCCCAATGCCACGGTCTCT
GAGAAGGCAGCTTTCCAGCTGGACTGTAGCATCGTGTCCGCTCCAGCCAGGACTCCCGCTTCGCTGTGGCTTGG
TATTCCTTGAGGACTAAAGCTGGGGGGAAAAGGAGCAGCCCTGGCCTGGAAGAACAGGAAGAGGAAGGGAGGAG
GAGGAGGAGGAGGACGACGACGACGACGACGACCCAAACAGAGCGGACGGCCCTGCTGAGCGTGGGCCAGATGCT
GTCTTTGGCCAGAGGGCAGTCTTGGGAGGGCAGGCTTCGCTTCCAGAGGCTCTCCCCGGTGTCTTACCGGCTC
ACAGTGTCTGCAGGCAAGCCCCAAGATACAGGCAATTACTCCTGCCATGTGGAGGAGTGGCTGCCAGCCCTCAG
AAGGAATGGTACCGCTGACGGAGGAGGAGTACAGCCCCATCGGCATCCGTGTTCTAGATACAAGTCCACCCCTC
CAGTCCATCATCTGCTCCAACGACGCACTCTTCTACTTCGTCTTCTTCTACCCCTTTCCCACTCTTTGGCATTCTT
ATCATCACCATCTTCTGGTGCCTTCAAGAGCCGGAACCTCCAGCAAGAACTCTGATGGGAAGAATGGGGTGCCT

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FIGURE 314B

CTGCTGTGGATCAAAGAGCCACACCTCAACTACTCCCCTACTTGCCTGGAGCCCCCTGTTCTCAGTATCCATCCA
GGGGCCATAGACTAAGCGGGTGATGCCCCAGCGGATGTTGGCCACGGAGGAGCTGAGGCTCTCCCTTTCTCTGTG
ATTGGACAGTTGACAGCACCCAACTCTGGGGTGATGTGTGTGGAAGTTGTCAGACTTGAAAAGTGTTCCAAG
TTCCAGTCAGTCACAGAGACAGACTGCCTCTCGGTGGCAGTCTTGTTGGTTAGCTATTTGCGCGCAAATGTTG
TGATCCTGCCATTATAGATTTCTTGTCTTCTGTTTTAGTAATGTAGTGAGTAGCTCCAGGTGCCACATCTACTCA
CAGATTTATCTAGTATTCTCAGATAGATGTTACAGGGCTTCTTATTCTTTGTAATGTACTCTTTTAAATCCCTT
TAGTTTACCCTTTTTGGATTCTTAAATGTGGACGAATTTCTCTTACGTACAACCTGACAGCAAAAGGAAGGGCGAA
CTTTCTAGTGACAAGGAATCTCTTCCAAGACTTTGTTTTGCACATTTGAAAATGCCACCCATGGATCAAAATAT
ACCCAAACGTTTTTTACTTTCTTAACAAGACTTAAGAATTGTGTGTAGTGTTGGGCAAAATTTGTATGTTGTCTTT
TCCCTCAGCTGGAGTTATTGGAACCACTTTGTAGTCAAGACGAAAGCACTGAATTTGCTTCAAAGAACTGTGTA
TGACAAGAGAAATCCTGCATAACCCCATAGGAGTAGATGGTGCCCGGCCTATCTGTCTAGGGAGGCAAAAAAGG
CTTCATCCCATCCTTGCCAAAAATAAGAAAACCTGTCTTGAGAATGGGTGAGAAGCCCCAAACGGCACACACTT
TCCAAATTAAGTGGGCGAGGGCTGCTTTTAGCAGCTGCTGACCTGCAGATTGTCAAAGCCAGTGACTAGAGAA
GGAAGGGAGAAAGGCTGGCTGTTGGCTTGCTCTGAGCTGCAAGGATGGTCTCTAACTGATTAACTGTGAGCAGGT
GGGCTGTGTCTTCAGTGCTTTTGCCAACTCTTAAAGAAAGTGTCAGTGAACCTTGAAGTGGGCCCCCTGAGC
TGAGCACAGGGCCAAAGCAGCCATGGCAGACACCTGACGGAGGGCACGGGGCTGGCTGACACTAAGTTTGGTGGG
ACAGTGAGGGGTGGGAGGGGGTTTTCCAGGGCCTGGTGTGGAGAGTGACAGAAATATCTACCTCCCTGGAGGT
GTGAAGACTAGGTTTTTCTTCTTCTTCCATTAGATTTTCCCTTAATTATAGTGATGTCTTCTTATTCCTTTT
CTCTCCCTGCCTCTCAGTGCATAAGAATATCAGCCTGGGGCAGTCCAGACGCAGCCCTTTGTATCCTTTCTG
TTTGCTAGTCTCAGCAGACTGTGATCAACAAGCATTGTCTGTGGGATTTTCTTTCCCTTTCTTGATCTCTCT
TGTGTTCTAGGTTGTTGGTTGTTTCTTATGGTGGCTTTTATTTTAAACGGCCCTTGAGCCCCATGATGGC
TGGTGTCAACCCTGTTCTTTTACACTGTTGGGCCAGGTGCTGCTTGTCTTCTTAGGGCATCATCAATTGCAATA
TTTTCTTTTGTCTCCCTTTATGAAGATGTTCTTATACCCTTGCTTTCCCATATTTTCTGGCCAAGCATGCCATCT
CCTTTACTCTGGGAACCTTACATCCTGAATCCCAAGAGGGGGTACAGTTTGAAAAAGTCATCAGGGATTCTGGA
ACTAAGTCTGATAAAAGATTCCAGTGAGGCCCTGTTCTGAGAACGAGCAGACTGCAGGGGAGGCCATGGGATTCC
CCAGGCCAGTGCTGTGCTGATCCTTCAAGGGTCTGCAGGTATGCAGGTGGCTGGGCTGCTCGGCAGATACCTT
GCTGATTCCCAGCTGAGGGGAGCATGGTGGCGATTGCTCAGCCATTTTCTGACAGACACACAGACCTGCCTTTT
TCCCCAAGTATACCGTACCCTCCTGTGAGACAGTGTGTGAGGCACCACCACCTTAACTCCTGCTGTTGCTGAC
ATGCTGATTCTCATTTATTATGCTGCATCAACACATTAGAGGTACAGGAGCGGCTCAGTCATGAAAAAGAAGGT
CTTTTGCCCCATTTCTTTATTTTCAAGATGTGGGCTTTTCACTGGGAATTTGCTGACTCCTACTTTATAGGCTGAG
TCAATGAGGGAAGATGACTGGCGTTTCTCTGTCTAAATGGGAGGTTGCCAGAGCGCTGGCTGGGACTAGGATGT
GTAACATAAGATTTAGTTTGAATCTTAGATTTTCACTTACGGCGATAAAGAAAGTAGGTGCTGCACACAAATATG
TAAAGCAATTGTAGGAAATTTGAAAGGAAAAAAGAAACCGAAGCCAGTATTTTAATAATTGCTTTTTCTGTGTA
TTTTGTATTGGGCTGGGGGATAGCATCAAAGGTTGAACTTTTTGAGCTTTCTATGAAAAACCCAGGACCTTCTT
TCTTTGGCCATTTCTATGGAATGCGATGTCAGATGGATGGTAATGGTGGCTCCAGTGGCTGTGAGACCTCATT
GCGCATTGTCTACTGGAGCTTTAGTCTTCTGAGACGGAGGAAACTGCTGAATACTCTGGATTCTATGTCTA
CAATGTTGCATTTATGAAAACTACACTGTGCTAGGCGCATTCTAGGACATGAATATGACCACACCCCTCTTTCAC
CGGGTGTCTGTAGCAAGTTTTCATATTCTTTTCAAACAATGGTTTCTCTGCGTTAATTATTAGGAAAAAAA
AGATGGGGTAAGAAAACCTACCCATGCATGATGTAGAGAGCTGTTGATTTGTTTCTGTTTTTTAAAGGAAAACTA
TTTGTAAGATGTTGCACTAAAACATTTTATATACACTTCAGAGACCTGTAGTAAATTATGTTGAAAAAT

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FIGURE 315A

GCTCTTTGCCGAGGGCGTGTGGTGAGAGTCCCCACAGCGACCCTGGTTTCGAGTGGTGGGCACTGAGCTGGTCATC
CCCTGCAACGTCACTGACTATGATGGCCCCAGCGAGCAAACTTTGACTGGAGCTTCTCATCTTTGGGGAGCAGC
TTTGTGGAGCTTGCAAGCACCTGGGAGGTGGGGTTCCCAGCCCAGCTGTACCAGGAGCGGGCTGCAGAGGGGGCGAG
ATCCTGTTAAGGCGGACTGCCAACGACGCCGTGGAGCTCCACATAAAGAAGCTCCAGCCTTCAGACCAAGGCCAC
TACAAATGTTCAACCCCCAGCACAGATGCCACTGTCCAGGGAACTATGAGGACACAGTGCAGGTTAAAGTGCTG
GCCGACTCCCTGCACGTGGGCCCCAGCGCGCGGCCCCCGCGAGCCTGAGCCTGCGGGAGGGGGAGCCCTTCGAG
CTGCGCTGCACCGCCGCTCCGCTCGCGCTGCACACGCACCTGGCGCTGCTGTGGGAGGTGCACCGCGGCCCCG
GCCAGGCGGAGCGTCTCGCCCTGACCCACGAGGGCAGGTTCCACCCGGGCTGGGGTACGAGCAGCGCTACCAC
AGTGGGGACGTGCGCTCGACACCGTGGGCAGCGACGCCTACCGCTCTCAGTGTCCCGGGCTCTGTCTGCCGAC
CAGGGCTCCTACAGGTGTATCGTCAGCGAGTGGATCGCCGAGCAGGGCAACTGGCAGGAAATCCAAGAAAAGGCC
GTGGAAGTTGCCACCGTGGTGATCCAGCCATCAGTTCTGCGAGCAGCTGTGCCCAAGAATGTGTCTGTGGCTGAA
GGAAAGGAAGTGGACCTGACCTGTAACATCACAACAGACCGAGCCGATGACGTCCGGCCCCAGGTGACGTGGTCC
TTCAGCAGGATGCTGACAGCACCTACCTGGCTCCCGCTGTGTGGCGCGGCTTGACCGTGATTCCCTGGTGCAC
AGCTCGCTCATGTGTCTTGTGATCATGTGGATGCACGCTCCTACCATTACTGGTTCCGGATGTTAGCAAAGAA
AACTCTGGCTACTATTACTGCCACGTGTCCCTGTGGGCACCCGGACACAACAGGAGCTGGCACAAAGTGGCAGAG
GCCGIGTCTTCCCCAGCTGGTGTGGGTGTGACCTGGCTAGAACCAGACTACCAGGTGTACCTGAATGCTTCCAAG
GTCCCCGGGTTTGGCGATGACCCACAGAGCTGGCATGCCGGGTGGTGGACACGAAGAGTGGGGAGGCGAATGTC
CGATTACGGTTCGTGGTACTACAGGATGAACCGGCGCAGCGACAATGTGGTGACCAGCGAGCTGCTTGCAGTC
ATGGACGGGACTGGACGCTAAATATGGAGAGAGGAGCAAGCAGCGGGCCAGGATGGAGACTTTATTTTTTCT
AAGGAACATACAGACACGTCAATTTCCGGATCCAAAGGACTACAGAGGAAGACAGAGGCAATTATTACTGTGT
GTGTCTGCTGGACCAACAGCGGAACAACAGCTGGGTGAAAGCAAGGATGTCTTCTCCAAGCTGTAAACATA
TTTTGGGCATTAGAAGATTCGCTGCTTGTGGTGAAGCGAGGCAGCCAAAGCCTTTCTTTGCTGCCGGAAATACA
TTTGAGATGACTTGCAAAGTATCTTCCAAGAATATTAAGTCGCCACGCTACTCTGTCTCATCATGGCTGAGAAG
CCTGTCCGGACCTCTCCAGTCCCAATGAAACGAAGTACATCATCTCTTGGACCAGGATTCTGTGGTGAAGCTG
GAGAATTGGACAGATGCATCACGGGTGGATGGCGTTGTTTTAGAAAAAGTGCAGGAGGATGAGTCCGCTATCGA
ATGTACCAGACTCAGGTCTCAGACGCAGGGCTGTACCGCTGCATGGTGACAGCCTGGTCTCCTGTCCAGGGGCAGC
CTTTGGCGAGAAGCAGCAACCAGTCTCTCCAATCCTATTGAGATAGACTTCCAAACCTCAGGTCTATATTTAAT
GCTTCTGTGCATTGACACACCATCAGTAATTCGGGGAGATCTGATCAAATTGTTCTGTATCATCACTGTTCGAG
GGAGCAGCACTGGATCCAGATGACATGGCCTTTGATGTGTCCTGGTTTGGCGTGCACTCTTTGGCCTGGACAAG
GCTCCTGTGCTCCTGTCTTCCCTGGATCGGAAGGGCATCGTGACCACCTCCCGAGGGACTGGAAGAGCGACCTC
AGCCTGGAGCGGTGAGTGTGCTGGAATCTTGTGTCAAGTGCATGGCTCCGAGGACCAGGACTTTGGCAACTAC
TACTGTTCCGTGACTCCATGGGTGAAGTACCAACAGGTTCTTGGCAGAAGGAGGCAGAGATCCACTCCAAGCCC
GTTTTTATAACTGTGAAGATGGATGTGCTGAACGCCTTCAAGTATCCCTTGCTGATCGGCGTCGGTCTGTCCAGC
GTCAATCGGGCTCCTGTCTCTCATCGGGTACTGCAGTCCCAGTGGTGTGTAAGAAGGAGGTTGAGGAGACA
CGGCGGAGCGCCGAGGCTCATGTGATGGAGATGGACTAGGCTGGCCCGGAGGGGAGTGACAGAGGGACGTT
CTAGGAGCAATTGGGGCAAGAAGAGGACAGTGATATTTTAAACAAAGTGTGTTACACTAAAAACAGTCTCTC
TAATCTCAGGTGGGACTTGGCGCTCTCTTTTCTGCATGTCAAGTTCTGAGCGCGGACATGTTTACCAGCACAC
GGCTCTTCTTCCACGCGACTTTCTGATGTAACAATCGAGTGTGTGTTTTCCCAACTGCAGCTTTTAAATGGTTA
ACCTTCATCTAATTTTTTTTCTCCACTGGTTTATAGATCCTCTGACTTGTGTGTTTTATAGCTTTTGTGTTTCGC
GGGTTGTGGTGAGGAAGGGGTGATGGCATGCGGAGTTCTTTATCTTCAGTGAGAATGTGCCTGCCCGCTGAGA
GCCAGCTTCCGCTTGGAGGCACGTGTTAGAGAGCTGTGTAGCGCCACCTCTACCCGGCTGACAGACAACACA
GACCTGTGCCGAAGGCTAATTTGTGGCTTTTACGACCCTACCCACCCCTGTTTTTCAGGGGTTAGACTACATT
TGAAATCCAACTTGGAGTATATAACTTCTTATTAGCCCAACTGCTTTTTTTTTTTTTTTTTTGTCTCTGTC
CCTTTTTCAATTTCTTTGTATTTGTTTTCTGTGAGAGCACTGAAATGGCAGCCCTGGAATCTACAATTTGGCTC
TCCACTGAGCACCTTATCTTGCCACCTTAGCCTTAAGAAATGAATATGAAGAAAAATACACAGCCACCTCTGTCCA
GGGCAGTAAGAAGGGCTGCAAGGAAGGGGAGGATGGGGACAAGGAAAGGATCAGATACCTGCTCCAGTAGTTGTG
AGGCCACTGTGTCTCAGGGGACTCCAGGAGGAGCAGAAGAGGGATCCACGAAGTTATTCTTACGAGCTGGGGC
CAGGAGGGTCAGAGTGGTGCCAGGTGCAAGTTAGGCTAAAGAAGCCACCCTATTCTCTCTTGCCCATTTGTG

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FIGURE 315B

GGGGGCAAAGGCATTGGTCACCAAGAGTCTTGAGGGGGACCCACAGATATGCCATGTCCTTCACACGTGCTTGG
GCTCCTTAACCTGAAGGCAAATTGCTACTTGCAAGACTGACTGACTTCAAGGAATCAGAAATTACCTAGAAGCAC
CATGTTTTTCTATGACCTTTTCAGTCCTTCAGGTCATTTTAAGGTCCACTGCAGGGGGTTAGTGAGAAAGGTA
TACTTTGTGGTATGTTTTGCTTTTCTAATAGGGACATGAAGGAAACCCAGCAATTTGCTGTTATGTGAATGGCCT
GTAGAGCAGAGTCAAGAGCGGTGTGCTTTGCCGACTGCTCCCATCAGGAATAGGAGAGTAGACAGAGATCTTCC
ACATCCCAGGCTTCTGCTGCTGCTTTAAAAGCTCTGTCCTTGGAGCCTCCCGCTCCCTGAAGTGTCTCGCCCCCT
GCACAGCACTGGCCTTTCGGAAGCATCCAGTAGGGTTTTCTGAGGCTCGCTGGTGACTCATGCCCTAATTGCAA
TCCTCTGCTTTTATCTTGACTTTGAAGGATCTAACACTGCTCTCTCTTCCAAAGGGGAAAAAAGATTCAATTGT
TTTGAGCAATAAACTAATAACAAAATGATGGCCATTTCATGTGCAGCTCTTTGTACCATGGGCCGGATGAGTTGTG
CTCTCCTGGCTCACCATTTCCTCCCTGCTCCCCACAGCCGGTTCTGCACTTATCACCAGTTCGCCCCCTGGAAGC
AGATTCCCATTGAGTTTCCCCACCAAGGGGACCATGCACATGGTAGAAACATTAGATTCTGCATTGACAGTAGC
CTTTCCTTGGCCCGGCCTGTGGTGGGAAGACGGGCAACAAGTATACCCACCAGGGCCTGAGTGACTAGAGGAA
GAGGACGAGGCCTTGTGGCACTAGATTGGGTATTTTCTGCATGTCATAACATATCCTAAGTCTATTTTCAGAA
GAGGCAGCTTGTAGGTGATTGTACAAGTGAGAATTAAGAGAGAACAGATATTTAAACAGGTGCTGTATTAGTAA
CAGCCAGTGCCCTTTTCAGCCCTTGCACTCTATTAAAAGGAGATTTCAGGATTTTATTGGCACAGGCCCTTCTTAGTA
GGAAGAAAGGGTGCTTAGCTTTGGACCTGACCGGGTGTGTGTAAAACCATGGACTGAGTCAAGCAGACACTCGA
TGGTGGTAAATGTGATGGGTGCTTACACACTGTACCTTTCCCTTTCATACTGATGCTGCAGTTCAGGGCTGGAGT
TGTTAAGGCATTGACCTCCACCCACCTGCCCCATGTCCACTGGGCTGCCCAAGCTGCATGTACCTGAGGGCTGG
CAGGAAGGGGCGAGAAATCCCAGGGCATTGTACCAAGGACCTAGTTCCCTTAGGGATATAAATTTCCAGGAATG
TGTATTTTAAATGTGGTGAGATGCACCTTTTGTGTACCAAATAGGGCTCCCCACCCACCCCTGCGACAAGTG
CTCTTCTAGAACAGGTTCTTACCAGCAGCACTGGTGTGAATGAAAGAGAGACCCAGCCGCTCTCACACAGGTGG
AATTGCACTTCTTAACAAAAAGGAACTTTATAAAAGTTTGGGATTTTTTTTCTTAATCATAAAAAATAGCCCCAGA
AAGAGCCTAAGCTATGTTTCAGATAGAAGCCTCGAAATTCCTGTAAATTGTTTACTTTATGATGTTTACATACAG
TTTCACCTTTGAAAAAAATGCAAATCGACTTTTAACTGTTGAGATGTTTCATGGGACAGTAGAACTCTGAC
TCACCAACTGGGCTAAATTTTAAATTTAAAAATGTATTTTGTAGTGTCTTTCCCCCCTCACCTCACCATCTG
AGGGGCTCCCTGAGATCTTGGTAGAGGAGGCCCTCCTGCCAGACCTTCGTTTGTTCCTCCGGTGGCCCTTGCT
TCTTGCTTTGCAGACTGCCTGCAGCCATGATTTTGTCACTGACATCTGTGAGCCAAAGACTGAGCCTTTTGGCA
GGAATAATAAGCAATACTACACAACCTTGCTACTTTTCAGAAAACTTTTTTTTTAGCTTCACCGATGACAACAGAGGA
AGAAGGGAACCTGGGATTGGGTAAGTTCTCCTCCACTGTTTGACCAAATTCAGTGATAAATATGTGTGCAGAT
CCCTAGAAGAGAAAACGCTGACTTTCTTTTAAAGTGGGCACATAAGGATCTGCAGAAATTTCCGTAGACAAAGA
AAGGATCTTGTGATTTTGTCCATATCCAATGTTATATGAACATAATTGTATTGTTTATACTGTGACCACAAAT
ATTATGCAATGCACCATTGTGTTTTTATTCATTAAAGGAAGTTTAATTT

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FIGURE 316

MPDSTLPGSRVLARLDRDSLHSSPHVALSHVDARSYHLLVRDVSKENSGYYYCHVSLWAPGHNRSWHKVAEAVS
SPAGVGVTWLEPDYQVYLNASKVPGFADDPTELACRVVDTKSGEANVRFTVSWYYRMNRRSDNVVTSELLAVMDG
DWTLKYGERSKQRAQDGDIFFSKEHTDTFNFRIQRTEEDRGNYICVVSATKQRNNSWVKS KDVF SKPVNIFWA
LED SVLVVKARQPKPFFAAGNTFEMTCKVSSKNIKSPRYSVLIMAEKPVGDLSSPNETKYIISLDQDSVVKLENW
TDASRVDGVVLEKVQEDEFYRMYQTQVSDAGLYRCMVTAWSPVRGSLWREAATSLSNPIEIDFQTSGPIFNASV
HSDTPSVIRGDLIKLFCIITVEGAALDPDDMAFDVSWFAVHSFGLDKAPVLLSSLDKRGIVTTSRRDWKSDLSLE
RVSVLEFLLQVHGSEDQDFGNYICSVTPWVKSP TGSWQKEAIEH SKPVFITVKMDVLNAFKYPLLIGVGLSTVIG
LLSCLIGYCSSHWCCKKEVQETRRERRRLMSMEMD

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FIGURE 317

GTCCATTTTGTCTGGTAGAGGCAGAAGGAGAAGGTCTGGATTGTAGAAGCTGGGGTGGCCGGCAGCTCGCTCATCGG
TGTTCTGGGGCTTTGTCTGGTCCGTGCCTCGTCTCTCCCTGGAAAGGGAGGGAGGCTTCAACGTCGAGAGGGAGCC
GCTGCCGCGTTAGTTCCGAGCTTGAAGTCACTAGGACTTCTCTCAAACCTTGAGTGCTGAGGAGACTCAGATGTTG
GCCTCAGCTCCTAGGCTGAACTCAGCAGATCGGCCCATGAAAACCTTCTGTATTGAGACAAAGGAAGGGATCTGTC
AGAAAGCAACACTTGTATTCTTGGGCTTGGCAGCAAGGAAGAGGACAGGTAGTGGAGATCCTGCAATCTGAAAAG
CAGACTGAAAGGTGACAAAGAAGCTGAAGATGGGTGGTAGAGAGAGGTATAACATTCCAGCCCCCTCAATCTAGAA
ATGTTAGTAAGAACCAACAACAGCTTAACAGACAGAAGACCAAGGAACAGAATCCCAGATGAAGATTGTTTCATA
AGAAAAAGAAAGAGGACATGGTTATAACTCATCAGCAGGTGCCTGGCAGGCCATGAAAAATGGGGGGAAGAACA
AAAAATTTCCAAATAATCAAAGTTGGAATCTAGCTTATCAGGTCCCAGCTTACTTTTTAAATCTCAAGCTAAAC
AGAACTATGCTGGTGCCAAATTTAGTGAGCCGCCATCACCAAGTGTTCTTCCCAAACCACCAAGCCACTGGGTCC
CTGTTTCCTTTAATCCTTCAGATAAGGAAATAATGACATTTCAACTTAAACCTTACTTAAAGTACAGGTATAAA
ATAAGACAAATGTTTAAAGTTTATGTTTACAGATAGTTGTCAATTGGTCTGAAACAAATTTGCTAGGGAATC
TATTTGTGTAGAATAATTAATGTAAAAAATAGACTTCATCTCGTGTGTGTGCTGCTGATATAATGGTAGT
ATCAGTGCAACTTAACTAATGATTGTAATTGATATTAAGTGTCTCAACTGAGTAACCTTTAAGTGGAACCAA
GTTTAGATTTGGGGAGTGGTAAAGGAATCAGCTTTTTCTATTGTTAGGGGAAGATAGTAATTTATCATTTCATGGA
CCAGTAGATTGTTGAAAGTTGGTGAATCGGATTATAAGCTTCTGGCTAACACAAGGATTGAGAATTAGGTAAACA
TCTGAAGGTTTATGATATTAGAAACACCCAAACCAGTAATATGCTAACCTGATGCACTGCTGAAAGAAAATGTGA
ATTTTTCGTAATAATTGCATTTTAGTGAATTGTACAGTGGGTGGAAAGGGCATTGGAGCTCATTAGAATGAGAC
ATAGTACACCCCAATGGCCCTGTTTATTAATGTAGTGGATTAAAGTGTCTGTCAACAAATACACCAAAACCATT
TTTATAGAAACAGTATTTAATGGTCACTCAATAGCTTTCAAATAACATTTTGTATTACAGCACTGCACAAGCTA
TTCTAATAGTGATCTGGCCTCCTCATTCTGCTGCAAGCTTGCTTTGGGGAGTTGGATAATGTGAAAATTTTAAGTA
CCTAGGGGAGAAAGAGCCATGTAAATATCTGTAATAAACTTGTAGCATATGTAAAGTTTTCTTGGCCTTTATCTT
ACAAAAATGGAATATTTTAGTATGAATTTGCTGAATGTAAAGACCGTGGACTGTTTTTTATAATATGGCCTAATTT
TAAAGGTCCAAAATAACTTGTTTTTAAAGTTTGCCCTTGCTGCTAAAGTGCCAGTGATGTATGTTATACTTGATT
TGGTTGTAACTATATTTCAAAGTAAACCTAGTGTAAATAAGTTTTATAACTAAAAAGGTTAAGCTGCTAAAC
TATTTTAAAGAGATGTGAAATGCAGTATGGGACTATCTTTTTTCTCCTCCTAAGCCCAAAGATTAACTAGAGTC
CCTCCAACCTTATAGATTTTTGGCTTTCACAATCTTATAACCTAGGATACAGGTAGTTTCGAGTATGGTGCCAGT
GATGTTTTGTTTTGTTTGGTCAAGGGGTAGGTGCAACCCAATGGACCCTTATGCAAAAGATGTAACTCTTGC
ATAATACATCGATAACATGTTTTGCCAACTTTAAATGCTTAAACATAAGCGAAACCAGTAGCAAGTATGTGGGTC
AGTTTAAAAATTTTGATTGTTAATGCCCTATTTTCTAATTTGGCACCTCTTTTGATGCCTAAGCAGGTAAGCAGA
TGCCTAAGCTGTATTTCTCAAATAAATCAAGAGGAAGTACTGCCCAAGTTAAATATTGATAGCCTAAAGACAAA
TTCATGTAGTACTTAATGTACATGATATGAATTTGAAGCATAAATTAATTTTTTCCCCATTG

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FIGURE 318A

TTTCAGCCAAACTTCGGGCGGCGGCTGAGGCGGCGGCCGAGGAGCGGCGGACTCGGGGCGGGGGAGTCGAGGCCA
TTTGCGCCTGGGCTTCGGAGCGTAGCGCCAGGGCCTGAGCCTTTGAAGCAGGAGGAGGGGAGGAGAGAGTGGGGC
TCCTCTATCGGGACCCCCCTCCCCATGTGGATCTGCCAGGCGGCGGCGGCGGCGGAGGAGGAGGCCAGCCGAG
AAGATGCCCCGCCCTGCGCCCCGCTCTGCTGTGGGCGCTGCTGGCGCTCTGGCTGTGCTGCGCGGCCCCCGCGCAT
GCATTGCAGTGTGAGATGGCTATGAACCCTGTGTAAATGAAGGAATGTGTGTTACCTACCACAATGGCACAGGA
TACTGCAAATGTCCAGAAGGCTTCTTGGGGGAATATTGTCAACATCGAGACCCCTGTGAGAAGAACCCTGCCAG
AATGGTGGGACTTGTGTGGCCAGGCCATGTGGGGAAAGCCACGTGCCGATGTGCCCTCAGGGTTTACAGGAGAG
GACTGCCAGTACTCAACATCTCATCCATGCTTTGTGTCTCGACCCCTGCCTGAATGGCGGCACATGCCATATGCTC
AGCCGGGATACCTATGAGTGCACCTGTCAAGTCGGGTTTACAGGTAAGGAGTGCCATGGACGGATGCCTGCCTG
TCTCATCCCTGTGCAAATGGAAGTACCTGTACCACTGTGGCCAAACAGTTCTCCTGCAAATGCCTCACAGGCTTC
ACAGGGCAGAAATGTGAGACTGATGTCAATGAGTGTGACATTCCAGGACACTGCCAGCATGGTGGCACCTGCCTC
AACCTGCCCTGGTTCTTACCAGTGCCAGTGCCCTCAGGGCTTCACAGGCCAGTACTGTGACAGCCTGTATGTGCCC
TGTGCACCTCACCTTGTGTCAATGGAGGCACCTGTGCGCAGACTGGTGACTTCACTTTTGAGTGCAACTGCCTT
CCAGGTTTTGAAGGGAGCACCTGTGAGAGGAATATTGATGACTGCCCTAACACAGGTGTGAGAATGGAGGGGTT
TGTGTGGATGGGGTCAACACTTACAACCTGCCGCTGTCCCCACAATGGACAGGACAGTTCTGCACAGAGGATGTG
GATGAATGCCTGCTGCAGCCCAATGCCTGTCAAAATGGGGGCACCTGTGCCAACCGBAATGGAGGCTATGGCTGT
GTATGTGTCAACGGCTGGAGTGGAGATGACTGCAGTGAGAACATTGATGATTGTGCCCTTCGCTCTGTACTCCA
GGCTCCACCTGCATCGACCGTGTGGCCTCCTTCTCTTGCATGTGCCAGAGGGGAAGGCAGGTCTCCTGTGTCTAT
CTGGATGATGCATGCATCAGCAATCCTTGCCACAAGGGGGCACTGTGTGACACCAACCCCTAAATGGGCAATAT
ATTTGCACCTGCCCCACAAGGCTACAAAGGGGCTGACTGCACAGAAGATGTGGATGAATGTGCCATGGCCAATAGC
AATCCTTGTGAGCATGCAGGAAATGTGTGAACACGGATGGCGCCTTCCACTGTGAGTGTCTGAAGGGTTATGCA
GGACCTCGTTGTGAGATGGACATCAATGAGTGCCATTGAGACCCCTGCCAGAATGATGCTACCTGTCTGGATAAG
ATTGGAGGCTTCATATGCTGTGCATGCCAGGTTTCAAAGGTGTGCAATTGTGAATTAGAAATAAATGAATGTCAG
AGCAACCTTGTGTGAACAATGGGCAGTGTGTGGATAAAGTCAATCGTTTCCAGTGCCTGTGTCTCCTGGTTTC
ACTGGGCCAGTTTGCCAGATTGATATTGATGACTGTTCCAGTACTCCGTGTCTGAATGGGGCAAAGTGATCGAT
CACCCGAATGGCTATGAATGCCAGTGTGCCACAGGTTTCACTGGTGTGTTGTGTGAGGAGAACATTGACAACCTGT
GACCCCGATCCTTGCCACCATGGTCAGTGTGAGGATGGTATTGATTCCTACACCTGCATCTGCAATCCCGGTAC
ATGGGCGCCATCTGCAGTGACCAGATTGATGAATGTTACAGCAGCCCTTGCTGAACGATGGTCGCTGCATTGAC
CTGGTCAATGGCTACCACTGCAACTGCCAGCCAGGCACGTGAGGGTTAATTGTGAAATTAATTTTGATGACTGT
GCAAGTAACCTTGTATCCATGGAATCTGTATGGATGGCATTAAATCGCTACAGTTGTGTCTGCTCACCAGGATTC
ACAGGGCAGAGATGTAACATTGACATTGATGAGTGTGCTTCAATCCCTGTGCAAGGGTGCAACATGTATCAAC
GGTGTGAATGGTTTCCGCTGTATATGCCCCAGGGACCCCATCACCCAGCTGCTACTCACAGGTGAACGAATGC
CTGAGCAATCCCTGCATCCATGGAACCTGTACTGGAGGTCTCAGTGGATATAAGTGTCTCTGTGATGCAGGCTGG
GTTGGCATCAACTGTGAAGTGGACAAAAATGAATGCCTTTTGAATCCATGCCAGAATGGAGGAACCTGTGACAAT
CTGGTGAATGGATACAGGTGTACTTGCAAGAAGGGCTTTAAAGGCTATAACTGCCAGGTGAATATTGATGAATGT
GCCTCAAATCCATGCCTGAACCAAGGAACCTGCTTTGATGACATAAGTGGCTACACTTGCCACTGTGTGCTGCCA
TACACAGGCAAGAATTGTCAGACAGTATTGGCTCCCTGTTCCCAACCCCTTGTGAGAATGCTGCTGTTTGCAAA
GAGTCACCAAATTTTGAGAGTTATACTTGCTTGTGTGCTCCTGGCTGGCAAGGTCAGCGGTGTACCATTGACATT
GACGAGTGTATCTCAAGCCCTGCATGAACCATGGTCTCTGCCATAACACCCAGGGCAGCTACATGTGTGAATGT
CCACCAGGCTTCAGTGGTATGGACTGTGAGGAGGACATTGATGACTGCCTTGCCAAATCCTTGCCAGAATGGAGGT
TCCTGTATGGATGGAGTGAATACTTTCTCCTGCCTCTGCCTTCCGGGTTTCACTGGGGATAAGTGCCAGACAGAC
ATGAATGAGTGTCTGAGTGAACCTGTGAAGATGGAGGGACCTGCTCTGACTACGTCAACAGTTACACTTGCAAG
TGCCAGGCAGGATTTGATGGAGTCCATTGTGAGAACAACATCAATGAGTGCACCTGAGAGCTCCTGTTTCAATGGT
GGCACATGTGTTGATGGGATTAACCTCTTCTTGTGCTTGTGCCCTGTGGGTTTCACTGGATCCTTCTGCCTCCAT
GAGATCAATGAATGCAGCTCTCATCCATGCCTGAATGAGGGAACGTGTGTTGATGGCTGGGTACCTACCGCTGC
AGCTGCCCCCTGGGCTACACTGGGAAAACTGTGACACCCTGGTGAATCTCTGCAGTCGGTCTCCATGTAAAAAC
AAAGGTACTTGCCTTCAGAAAAAAGCAGAGTCCAGTGCCTATGTCCATCTGGATGGGCTGGTGCCTATTGTGAC
GTGCCCAATGTCTCTTGTGACATAGCAGCCTCCAGGAGAGGTGTGCTTGTGTAACACTTGTGCCAGCACTCAGGT

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FIGURE 318B

GTCTGCATCAATGCTGGCAACACGCATTACTGTCACTGCCCCCTGGGCTATACTGGGAGCTACTGTGAGGAGCAA
CTCGATGAGTGTGCGTCCAACCCCTGCCAGCAGGGGCAACATGCAGTGACTTCATTGGTGGATACAGATGCGAG
TGTGTCCCAGGCTATCAGGGTGTCAACTGTGAGTATGAAGTGGATGAGTGCCAGAATCAGCCCTGCCAGAATGGA
GGCACCTGTATTGACCTTGTGAACCATTTCAAGTGCTCTTGCCACCAGGCACTCGGGGCCTACTCTGTGAAGAG
AACATTGATGACTGTGCCCCGGGTCCCCATTGCCTTAATGGTGGTCAGTGCAATGATAGGATTGGAGGCTACAGT
TGTCGCTGCTTGCCCTGGCTTTGCTGGGGAGCGTTGTGAGGGAGACATCAACGAGTGCCTCTCCAACCCCTGCAGC
TCTGAGGGCAGCCTGGACTGTATACAGCTCACCAATGACTACCTGTGTGTTTGCCGTAGTGCCCTTTACTGGCCGG
CACTGTGAAACCTTCGTCGATGTGTGTCCCCAGATGCCCTGCCTGAATGGAGGGACTTGTGCTGTGGCCAGTAAC
ATGCCTGATGGTTTCATTTGCCGTTGTCCCCGGGATTTTCCGGGGCAAGGTGCCAGAGCAGCTGTGGACAAGTG
AAATGTAGGAAGGGGGAGCAGTGTGTGCACACCGCCTCTGGACCCCGCTGCTTCTGCCCCAGTCCCGGGACTGC
GAGTCAGGCTGTGCCAGTAGCCCCCTGCCAGCAGGGGGCAGCTGCCACCCTCAGCGCCAGCCTCTTATTACTCC
TGCCAGTGTGCCCCACCATTCTCGGGTAGCCGCTGTGACTCTACAGGGCACCCTCAGCAGCACCCTCTCTGCCACC
TGTCTGAGCCAGTATTGTGCCGACAAAGCTCGGGATGGCGTGTGATGAGGCTGCAACAGCCATGCCCTGCCAG
TGGGATGGGGGTGACTGTTCTCTCACCATGGAGAACCCTGGGCCAACTGCTCCTCCCCACTTCCCTGCTGGGAT
TATATCAACAACCAAGTGTGATGAGCTGTGCAACACGGTCGAGTGCCTGTTTGACAACCTTTGAATGCCAGGGGAAC
AGCAAGACATGCAAGTATGACAAATACTGTGCAGACCCTTCAAAGACAACCCTGTGACCAGGGGTGCAACAGT
GAGGAGTGTGGTTGGGCTGGACTGTGCTGTGCTGACCAACCTGAGAACCTGGCAGAAGGTACCTTGTTATT
GTGGTATTGATGCCACCTGAACAACTGCTCCAGATGCTCGCAGCTTCTTGCGGGCACTGGGTACCTGCTCCAC
ACCAACCTGCGCATTAAAGCGGGACTCCAGGGGGAACCTCATGGTGTACCCCTATTATGGTGAGAAGTCAGCTGCT
ATGAAGAAACAGAGGATGACACGCAGATCCCTTCTGGTGAACAAGAACAGGAGGTGGCTGGCTCTAAAGTCTTT
CTGGAAATTSACAACCGCCAGTGTGTTCAAGACTCAGACCCTGCTTCAAGAACACGGATGCAGCAGCAGCTCTC
CTGGCCTCTCAGCCATACAGGGGACCCTGTCTATACCCTCTTGTGTCTGCTCAGTGAATCCCTGACTCCAGAA
CGCACTCAGCTCCTCTATCTCCTTGCTGTTGTGTTGTCTATCTGTTTATTATTCTGCTGGGGTAATCATG
GCAAAACGAAAGCGTAAGCATGGCTCTCTCTGGCTGCCTGAAGGTTTCACTCTTCGCCGAGATGCAAGCAATCAC
AAGCGTCGTGAGCCAGTGGGACAGGATGCTGTGGGGCTGAAAAATCTCTCAGTGCAAGTCTCAGAAGCTAACCTA
ATTGGTACTGGAACAAGTGAACACTGGGTCGATGATGAAGGGCCCCAGCCAAAGAAAGTAAAGGCTGAAGATGAG
GCCTTACTCTCAGAAGAAGATGACCCCATTTGATCGACGGCCATGGACACAGCAGCACCTTGAAGTCGACACATC
CGTAGGACACCATCGCTGGCTCTCACCCCTCCTCAGGCAGAGCAGGAGGTGGATGTGTTAGATGTGAATGTCCGT
GGCCCAGATGGCTGCACCCCATTTGATGTTGGCTTCTCTCCGAGGAGGCAGCTCAGATTGAGTGTGAAGATGAA
GATGCAGAGGACTCTTCTGTCTAACATCATCACAGACTTGGTCTACAGGGTGCCAGCCTCCAGGCCCAGACAGAC
CGGACTGGTGAGATGGCCCTGCACCTTGCAGCCCGCTACTCACGGGCTGATGCTGCCAAGCGTCTCCTGGATGCA
GGTGCAGATGCCAATGCCCAGGACAACATGGGCCGCTGTCCACTCCATGCTGCAGTGGCAGCTGATGCCAAGGT
GTCTTCCAGATTCTGATTGCAACCGAGTAAGTATGATCTAGATGCCAGGATGAATGATGGTACTACACCCCTGATC
CTGGCTGCCCCGCTGGCTGTGGAGGGAATGGTGGCAGAAGTATCAACTGCCAAGCGGATGTGAATGCAGTGGAT
GACCATGGAAAATCTGCTCTTCACTGGGCAGCTGCTGTCAATAATGTGGAGGCAACTCTTTTGTGTTGAAAAAT
GGGGCCAACCGAGACATGCAGGACAACAAGGAAGAGACACCTCTGTTTCTTGCTGCCCCGGGAGGGGAGCTATGAA
GCAGCCAAGATCCTGTTAGACCATTTTGCCAATCGAGACATCACAGACCATATGGATCGTCTTCCCCGGGATGTG
GCTCGGGATCGCATGCACCATGACATTGTGCGCCTTCTGGATGAATACAATGTGACCCCAAGCCCTCCAGGCACC
GTGTTGACTTCTGCTCTCTCACCTGTCTCTGTGGGCCCAACAGATCTTTCCTCAGCCTGAAGCACACCCCAATG
GGCAAGAAGTCTAGACGGCCAGTGCCAAGAGTACCATGCCTACTAGCCTCCCTAACCTTGCCAAGGAGGCAAG
GATGCCAAGGGTAGTAGGAGGAAGAAGTCTCTGAGTGAGAAGGTCCAAGTGTCTGAGAGTTTCACTAATTTATCC
CCTGTTGATTCCCTAGAATCTCTCACACGTATGTTCCGACACCACATCTCTCCAATGATTACATCCCTGGG
ATCTTACAGGCCTCACCCAACCTATGTTGGCCACTGCCGCCCTCTGCCCCAGTCCATGCCCAGCATGCACTA
TCTTTTTCTAACCTTCATGAAATGCAGCCTTTGGCACATGGGGCCAGCACTGTGCTTCCCTCAGTGAGCCAGTTG
CTATCCCACCACCATTTGTGCTCCAGGCAGTGGCAGTGTGGAAGCTTGAGTAGGCTCCATCCAGTCCCAGTC
CCAGCAGATTGGATGAACCGCATGGAGGTGAATGAGACCCAGTACAATGAGATGTTTGGTATGGTCTCGCTCCA
GCTGAGGGCACCCATCCTGGCATAGCTCCCCAGAGCAGGCCACCTGAAGGGAAGCACATAACCACCCCTCGGGAG
CCCTTGCCCCCATTTGTGACTTTCAGCTCATCCCTAAAGGCAGTATTGCCCAACCAGCGGGGCTCCCCAGCCT

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FIGURE 318C

CAGTCCACCTGCCCTCCAGCTGTTGCGGGCCCCCTGCCACCATGTACCAGATTCCAGAAATGGCCCCGTTTGCCC
AGTGTGGCTTTTCCCCACTGCCATGATGCCCCAGCAGGACGGGCAGGTAGCTCAGACCATTCTCCCAGCCTATCAT
CCTTTCCCAGCCTCTGTGGGCAAGTACCCACACCCCCCTTACAGCACAGTTATGCTTCCTCAAATGCTGCTGAG
CGAACCCCAGTCACAGTGGTCACCTCCAGGGTGAGCATCCCTACCTGACACCATCCCCAGAGTCTCCTGACCAG
TGGTCAAGTTCATACCCCCACTCTGCTTCTGACTGGTCAGATGTGACCACCAGCCCTACCCCTGGGGGTGCTGGA
GGAGGTGAGCGGGGACCTGGGACACACATGTCTGAGCCACCACACAACATGCAGGTTTATGCGTGAGAGAGT
CCACCTCCAGTGTAGAGACATAACTGACTTTTGTAATGCTGCTGAGGAACAAATGAAGGTCATCCGGGAGAGAA
ATGAAGAAATCTCTGGAGCCAGCTTCTAGAGGTAGGAAAGAGAAGATGTTCTTATTAGATAATGCAAGAGAAGC
AATTCGTGAGTTTACTGGGTATCTGCAAGGCTTATTGATTATTCTAATCTAATAAGACAAGTTTGTGGAAATGC
AAGATGAATACAGCCTTGGGTCCATGTTTACTCTCTTCTATTGAGAAATAAGATGGATGCTTATTGAAGCCCA
GACATTCTTGAGCTTGGACTGCATTTTAAGCCCTGCAGGCTTCTGCCATATCCATGAGAAGATTCTACACTAGC
GTCTGTGGGAAATATGCCCTGGAATCTGCTGAAATTGACCTACGCATCTCCTCCTCCTTGGACATTCTTTTG
TCTTCATTGGTGCTTTTGGTTTTGACCTCTCCGTGATTGTAGCCCTACCAGCATGTTATAGGGCAAGACCTTT
GTGCTTTTGATCATCTGCCCCATGAAAGCAACTTTGGTCTCCTTTCCCTCCTGTCTTCCCGGTATCCCTTGGA
GTCTCACAAGGTTTACTTTGGTATGGTCTCAGCACAAACCTTTCAAGTATGTTGTTTCTTTGGAAAATGGACAT
ACTGTATTGTGTTCTCTGCATATATCATTCCTGGAGAGAGAAGGGGAGAAGAATACTTTCTTCAACAAATTTT
GGGGGCAGGAGATCCCTTCAAGAGGCTGCACCTTAATTTTCTTGTCTGTGTGCAGGCTTTCATATAAATTTAC
CAGGAAGAAGGGTGTGAGTTTGTGTTTTCTGTGTATGGGCTGGTCAGTGTAAGTTTATCCTTGATAGTCT
AGTTACTATGACCTCCCCACTTTTAAACAGAAAAAGGTTTGAATGTTGGAATGACCAAGAGACAAGTTA
ACTCGTGCAAGAGCCAGTTACCCACCCACAGGTCCTTACTTCTGCCAAGCATTCCATTGACTGCCTGTATGG
AACACATTTGTCCAGATCTGAGCATTTCTAGGCCTGTTTCACTCACTCACCAGCATATGAACTAGTCTTAAT
GTTGAGCCTTTCTTTTCATATCCACAGAAGACACTGTCTCAATGTTGTACCCTTGCCATTTAGGACTGAACCTT
CCTTAGCCCCAAGGACCCAGTGACAGTTGTCTTCCGTTTTGTAGATGATCAGTCTCTACTGATTATCTTGCTGCT
TAAAGGCCTGCTCACCAATCTTTCTTTCACACCGTGTGGTCCGTGTTACTGGTATACCCAGTATGTTCTCACTGA
AGACATGGACTTTATATGTTCAAGTGCAGGAATTGGAAGTTGGACTTGTTTTCTATGATCCAAAACAGCCCTAT
AAGAAGGTTGGAAAAGGAGGAATATATAGCAGCCTTTGCTATTTTCTGCTACCATTCTTTTCTCTGAAGCGG
CCATGACATTCCCTTTGGCAACTAACGTAGAACTCAACAGAACATTTTCTTTCTAGAGTCACCTTTTAGATG
ATAATGGACAACATATAGACTTGCTCATTGTTTCAAGACTGATTGCCCTCACCTGAATCCACTCTCTGATTCATGC
TCTTGGCAATTTCTTTGACTTTCTTTTAAGGGCAGAAGCATTITAGTTAATTGTAGATAAAGAATGATTTTCTTC
CTCTTCTCCTTGGGCCAGTTAATAATTGGTCCATGGCTACACTGCAACTTCCGTCCAGTGCTGTGATGCCCATGA
CACCTGCAAAAATAAGTTCTGCCTGGGCATTTTGTAGATATTAACAGGTGAATCCCGACTCTTTTGGTTTGAATG
ACAGTTCTCATTCTTCTATGGCTGCAAGTATGCATCAGTGCTTCCCACTTACCTGATTGTCTGTGCTGGGCC
CATATGGAAACCCTGCGTGTCTGTTGGCATAATAGTTTACAAATGGTTTTTTCAGTCCATCCAAATTTATTGAA
CCAACAAAAATAATTACTTCTGCCCTGAGATAAGCAGATTAAAGTTTGTTCATTCTCTGCTTTATCTCTCCATGT
GGCAACATTCTGTGACCCCTTTTCATAGTGTGCAAAACATTTTATCATTCTAAATGGTGACTCTCTGCCCTTGGAC
CCATTTATTATTACAGATGGGGAGAACCCTATCTGCATGGACCTCTGTGGACCACAGCGTACCTGCCCTTTCTG
CCCTCCTGCTCCAGCCCCACTTCTGAAAGTATCAGCTACTGATCCAGCCACTGGATATTTTATATCCTCCCTTTT
CCTTAAGCACAATGTGACACCAATTGCTTGTCTTTTCTTGGACTACTTTAATTTGGATCCTTTGGGTTTGG
AGAAAGGGAATGTGAAAGCTGTCAATTACAGACAACAGGTTTTCAGTGATGAGGAGGACAACACTGCCTTTCAAAC
TTTTACTGATCTCTTAGATTTTAAAGACTCTGAATTGTGTGGTATCTAATAAAAGGGAAGGTAAGATGGATAAT
CACTTCTCATTGTTGGTCTGAATTGGAGACTCAGTTTTTATGAGACACATCTTTTATGCCATGTATAGATCCTC
CCCTGCTATTTTGGTTTATTTTATGTTATAAATGCTTCTTCTTGGACTCCTCTTCTGCCTGCTTTGGGG
ATAGGTTTTTTTGTGTTTATTTGCTTCTCTGTTTTGTTTTAAGCATCATTTTCTTATGTGAGGTGGGGAAGG
GAAAGGTATGAGGGAAAGAGAGTCTGAGAATTAATAATTTTAGTATAAGCAATTGGCTGTGATGCTCAAATCCA
TTGCATCCTCTTATTGAATTTGCCAATTTGTAATTTTGCATAATAAAGAACCAAGGTGTAATGTTTTGTTGAG
AGGTGGTTTTAGGGATTTGGCCCTAACCAATACATTGAATGTATGATGACTATTTGGGAGGACACATTTATGTAC
CCAGAGGCCCCCACTAATAAGTGGTACTATGGTTACTTCTTGTGTACATTTCTCTTAAAGTGATATTATATCT
GTTGTATGAGAAACCCAGTAACCAATAAAATGACCGCATATTCTGACTAAACGTAGTAAGGAAAATGCACACT

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FIGURE 318D

TTGTTTTTACTTTTCCGTTTCATTCTAAAGGTAGTTAAGATGAAATTTATATGAAAGCATTTTTATCACAAAATA
AAAAAGGTTTGCCAAGCTCAGTGGTGTGTATTTTTTATTTTCCAATACTGCATCCATGGCCTGGCAGTGTTACC
TCATGATGTCATAATTTGCTGAGAGAGCAAATTTCTTTTCTTTCTGAATCCCACAAAGCCTAGCACCAAAC TTC
TTTTTTCTTCCTTTAATTAGATCATAAATAAATGATCCTGGGGAAAAAGCATCTGTCAAATAGGAAACATCACA
AAACTGAGCACTCTTCTGTGCACTAGCCATAGCTGGTGACAAACAGATGGTTGCTCAGGGACAAGGTGCCTTCCA
ATGGAAATGCGAAGTAGTTGCTATAGCAAGAATTGGGAAC TGGGATATAAGTCATAATATTAATTATGCTGTTAT
GTAAATGATTGGTTTGTAACATTCCTTAAGTCAAATTTGTGTAGAACTTAATATACAGGATTATAAAATAATATT
TTGTGTATAAATTTGTTATAAGTTCACATTCATACATTTATTTATAAAGTCAGTGAGATATTTGAACATG

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FIGURE 319

GAGGAGGAGGAGGAGATGACTGGGGAGCGGGAGCTGGAGAATACTGCCCAGTTACTCTAGCGCGCCAGGCCGAAC
CGCAGCTTCTTGGCTTAGGTACTTCTACTCACAGCGGCCGATTCCGAGGCCAACTCCAGCAATGGCTTTTGCAAA
TCTGCGGAAAGTGCTCATCAGTGACAGCCTGGACCCCTTGCTGCCGGAAGATCTTGCAAGATGGAGGGCTGCAGGT
GGTGAAAAAGCAGAACCTTAGCAAAGAGGAGCTGATAGCGGAGCTGCAGGACTGTGAAGGCCTTATTGTTTCGCTC
TGCCACCAAGGTGACCGCTGATGTTCATCAACGCAGCTGAGAACTCCAGGTGGTGGGCAGGGCTGGCACAGGTGT
GGACAATGTGGATCTGGAGGCCGCAACAAGGAAGGGCATCTTGGTTATGAACACCCCCAATGGGAACAGCCTCAG
TGCCGCAGAACTCACTTGTGGAATGATCATGTGCCTGGCCAGGCAGATTCCCCAGGCGACGGCTTCGATGAAGGA
CGGCAAATGGGAGCGGAAGAAGTTTCATGGGAACAGAGCTGAATGGAAAGACCCTGGGAATTCTTGGCCTGGGCAG
GATTGGGAGAGAGGTAGCTACCCGGATGCAGTCCTTTGGGTGAAGACTATAGGGTATGACCCCATCATTTCCCC
AGAGGTCTCGGCCTCCTTTGGTGTTTCAGCAGCTGCCCCCTGGAGGAGATCTGGCCTCTCTGTGATTTTCATCACTGT
GCACACTCCTCTCCTGCCCTCCACGACAGGCTTGCTGAATGACAACACCTTTGCCAGTGCAAGAAGGGGGTGCG
TGTGGTGAAGTGTGCCCGTGGAGGGATCGTGGACGAAGGCGCCCTGCTCCGGGCCCTGCAGTCTGGCCAGTGTGC
CGGGGCTGCACTGGACGTGTTTACGGAAGAGCCGCCACGGGACCGGGCCTTGGTGGACCATGAGAATGTCATCAG
CTGTCCCCACCTGGGTGCCAGCACCAAGGAGGCTCAGAGCCGCTGTGGGGAGGAAATTGCTGTTTCAGTTCGTGGA
CATGGTGAAGGGGAAATCTCTCACGGGGGTTGTGAATGCCAGGCCCTTACCAGTGCCTTCTCTCCACACACCAA
GCCTTGGATTGGTCTGGCAGAAGCTCTGGGGACACTGATGCGAGCCTGGGCTGGGTCCCCCAAAGGGACCATCCA
GGTGATAACACAGGGAACATCCCTGAAGAATGCTGGGAAGTGCCTAAGCCCCGCAGTCATTGTTCGGCCTCCTGAA
AGAGGCTTCCAAGCAGGCGGATGTGAAGTGGTGAACGCTAAGCTGCTGGTGAAGAGGCTGGCCTCAATGTCAC
CACCTCCCACAGCCCTGCTGCACCAGGGGAGCAAGGCTTCGGGGAATGCCCTCCTGGCCGTGGCCCTGGCAGGCGC
CCCTTACCAGGCTGTGGGCTTGGTCCAAGGCACTACGCCCTGACTGCAGGGGCTCAATGGAGCTGTCTTCAGGCC
AGAAGTGCCTCTCCGCAGGGACCTGCCCTGCTCCTATTCGGGACTCAGACCTCTGACCCTGCAATGCTGCCTAC
CATGATTGGCCTCCTGGCAGAGGCAGGCGTGCGGCTGCTGTCTACCAGACTTCACTGGTGTGAGATGGGGAGAC
CTGGCACGTATGGGCATCTCCTCCTTGCTGCCCAGCCTGGAAGCGTGGAAGCAGCATGTGACTGAAGCCTTCCA
GTTCCACTTCTAACCTTGGAGCTCACTGGTCCCTGCCTCTGGGGCTTTTCTGAAGAAACCCACCCACTGTGATCA
ATAGGGAGAGAAAATCCACATTCTTGGGCTGAACGCGGGCCTCTGACACTGCTTACACTGCACTCTGACCCTGTA
GTACAGCAATAACCGTCTAATAAAGAGCCTACCCCC

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FIGURE 320

MAFANLRKVLISDSLDPCCRKILQDGGLOVVEKQNLKEELIAELQDCEGLIVRSATKVTADVINA AEKLQVVGR
AGTGVDNVDLEAATRKGILVMNTPNGNSLSAAELTCGMIMCLARQIPQATASMKGKWERKKFMGTENKTLGI
LGLGRIGREVATRMQSFQMKTIQYDPIISPEVSASFQVQQLPEEIWPLCDFITVHTPLLPSTTGLLNDNIFAQC
KKGVRVVNCARGGIVDEGALLRALQSGQCAGAALDVFTTEPPRDALVDHENVISCPHLGASTKEAQSRCGEEIA
VQFVDMVKGKSLTGVVNAQALTSASFSPHTKWPWIGLAEALGTLRAWAGSPKGTIQVITQGTSLKNAGNCLSPAVI
VGLLKEASKQADVNLVNAKLLVKEAGLNVTTSHSPAAPGEQGFGECLLAVALAGAPYQAVGLVQGTTPVLQGLNG
AVFRPEVPLRRDLPLLLFRIQTSDPAMLPTMIGLLAEAGVRLLSYQTSLSVSDGETWHVMGISSLLPSLEAWKQHV
TEAFQFHF

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FIGURE 321

GGGCAGGGGTGCGGAGGGACCGACGGACGCACGGGCGGGCGGCCGGGAGCCATGGAGCGCGGCCCTGGGGCCCCGG
GGGCGCGGGCCGGGGTGGGCTTCCACGGCACGACATGGAGACCTGTGGTTGCGAGGCTCCCTGGGGCTCGGCTT
GGACCGGATGGGGCTGGGCCCTGGCCTCCTAACGGGGCTGCTGTCTGGGGCGGTAGCTGGGGGGGCGCTCTCCC
CCCTGCCCCGCGACTCGGAGCACCCACCCCTCCCCTGCCGGGCCAGGCCGGGCGGCGTTGTTGGCGGGGGCCCCG
GTGAGGCCCGGGCCGGGCGGGCGGCCCGCCATGAACGGGCTGTGCTGAGTGAGCTCTGCTGCCTCTTCTGCTGCC
CTCCCTGCCCCGGCCGATCGCTGCCAAGCTCGCCTTCCTGCCGCCGGAGGCCACCTACTCCCTGGTGCCTGAGC
CCGAGCTGGGGCCTGGTGGGGCCGGGGCCGCCCTTGGGGACCCTGAGAGCCTCCTCGGGCGCACCCGGGCGCT
GGAAGCTGCACCTGACGGAGCGTGCCGACTTCCAGTACAGCCAGCGCGAGCTGGACACCATCGAGGTCTTCCCCA
CCAAGAGCGCCCGCGGCAACCGTGCTCCTGCATGTATGTTGCTGCGTGCCCTGGTGCCAGGTACACGGTCTCT
TCTCGCACGGCAATGCCGTGGACCTGGGCCAGATGAGCAGCTTCTACATTGGCCTGGGCTCCCGCCTCCACTGCA
ACATCTTACCTACGACTCCTCCGGCTACGGTGCCAGCTCGGGCAGGCCTTCCGAGAGGAACCTCTATGCCGACA
TCGACGCCACCTGGCAGGCCCTGCGCACCGGTACGGCATCAGCCCGGACAGCATCATCCTGTACGGGCAGAGCA
TCGGCACGGTGCCCAACATGGACCTGGCCTCGCGCTACGAGTGTCGCGGGTGGTGCTGCACTCGCCGCTCACCT
CGGGCATGCGGTCGCCCTTCCGCGACACCAAGAAGACCTACTGCTTCGACGCCTTCCCTAACATCGAGAAGGTGT
CCAAGATCACGTCTCCCGTGCTCATCATCCACGGCAGGGAGGACGAGGTGATCGACTTCTCGCACGGGCTGGCGC
TCTACGAGCGCTGCCCCAAGGCGGTGGAGCCGCTGTGGGTGGAGGGCGCCGGGCACAACGACATCGAGCTCTACA
GCCAGTACCTGGAGCGCCTGCGTCGCTTCATCTCCCAGGAGCTGCCAGCCAGCGCGCCATACGGCGGCCCAAC
CAGCCGGACCTCAGCAATAAGGCGGCCCCCGGACCTACCCCGCGCCGGCCCCCACCAGGGGCTGCATGTGGAC
CCCCCGGGCGGCCAGGGGACCCGCCCCGACCCAGGGGCTGTGGACGATGTACAGGCAACAGAGCTACGCACT
CCTTTCCTTTTGAAGCAAGAAGAAAATACGTGAAAACGGAAATTAAAGATTTAAAATT

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FIGURE 322

MNGLSLSELCCLFCCPPCPGRIAAKLAFLPPEATYSLVPEPELGPGGAGAAPLGTLRASSGAPGRWKLHLTERAD
FQYSQRELDTIEVFPTKSARGNRVSCMYVRCVPGARYTVLF SHGNAVDLGQMSSFYIGLGSRLHCNIFTYDSSGY
GASSGRPSEARNLYADIDATWQALRTRYGISPDSIILYGQSIGTVPTMDLASRYECAAVVLHSPLTSGMRVAFRDT
KKTTCFDAFPNIEKVSKITSPVLIHGREDEVIDFSHGLALYERCPKAVEPLWVEGAGHNDIELYSQYLERLRRF
ISQELPSQRA

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FIGURE 323A

AGCGTGAACCTGGGAGGCAGAGCTTGCACTGAGCCTAGATCGCGTCACTGCACTCCAGCCTGGGAGACAGAGTGA
GACTCTGTCTCAAAAAAAAAAAAAAGTCAAAACAAGAGAACATACTAAATGATTCCATTTTTTTATTTATGACTT
CATGACTACCATTAAGAAAATATAACCTGTTGGGAAACTGTTTCTGCCTTGATGATGTTGTACAGACAAGAGATA
AACAGTGAGGAATGTGCTTAGATGATTTGGGAAAGACACGGGTCTGTGGCATTGTACAAAGGGTACACGAATACT
GAGAGTGAATGCTGAAGGAATGATCCCCATTGGTGGTGACCTCAGGTGAGACTAGGGTGCCTGTGTTTCAGCAA
AGCCTGGGCAATTGGAATGCAGGGCTCCTAAGATTCCATGACACCCCCACCTTCTAATTCTGTTATTGCAACTGC
AGACCGTTACCTGGCAGCTGGCCACAATCTACCTCACTCTTATCAGAGTCTGAGCTACTGGCAGTGCTTTTCAGC
TCTGAGTTGAGGCACCTCGAACCTTGTTTTGTGGTGGAAGGATCCTAAAGTGCTGTGGGAGTGATCACATTTTTT
ACAACAGTAAGTCCCTGACTCCACCTCTTCTGCCACAAACGTGAGCATGGTGGTATCAGCCGGCCCTTGTTCCAG
CGAGAAGGCAGAGATGAACATTCTAGAAATCAACGAGAAATTGCGCCCCAGTTGGCAGAGAAACAAACAGCAGTT
CGTAAACCTCAAAGAGATGTTTTCTAACTCACTGGCCGGCTTCTGGCCAACCGACAGAAGAAATACAGCAATA
TAAAGTCTTGTTCACTCTCAGGAACGAGAGCTGACGCAGTTAAAGGAGAAGTTACAGGAAGGGAGAGATGCCTC
CCGCTCATTGAATGAGCATCTCAGGCCCTCTCACTCTGGATGAGCCGGACAAGTCCAGGGGCAGGACCTCCA
AGAACAGTTGGCTGAGGGGTGTAGACTGGCAGCAGCCTTGTCCAAAAGCTCAGCCCAGAAAATGACGAAGATGA
GGATGAAGATGTTCAAGTTGAGGAGGATGAGAAAGTGAGAAATCATCTGCCCCCAGGGAGGTGCAGAAAGGCTGA
AGTGAGCAAAGTCCCTGAGGACTCACTGGAGGAATGTGCCATCACTTGTTCAAATAGCCACGGCCCTTGTTGACTC
CAACCAGCCTCACAAGAATCAAAATCACATTTGAGGAAGACGAAGTCAACTCAACTCTGGTTGTAGACAGAGA
ATCCTCTCATGATGAATGTCCAGGATGCTCTAAACATTCTCCAGTCCCTGGCCCCACCTCTTCTGCCACAAACGT
CAGCATGGTGGTATCAGCCGGCCCTTTGTCCAGCGAGAAGGCAGAGATGAACATTCTAGAAATCAATGAGAAATT
GCACCCCCAGCTGGCAGAGAAAGAAACAGCAGTTTCAAGAACCTCAAAGAGAAATGTTTTCTAACTCACTGGCCGG
CTTCTGCCCCAACAGCAGAAACAAATACAAGTATGAAGAGTGTAAAGACCTCATAAAATTTATGCTGAGGAATGA
GCGACAGTTCAAGGAGGAGAAGCTTGCAGAGCAGCTGAAGCAAGCTGAGGAGCTCAGGCAATATAAAGTCTGGT
TCACGCTCAGGAACGAGAGCTGACCCAGTTAAGGGAGAAGTTGCGGGAAGGGAGAGATGCCTCCCGCTCATTGAA
TGAGCATCTCCAGGCCCTCTCACTCCGGATGAGCCGGACAAGTCCCAGGGGCAGGACCTCCAAGAACAGCTGGC
TGAGGGGTGTAGACTGGCAGCAGCCTTGTCCAAAAGCTCAGCCCAGAAAATGACAACGATGACAATGAAGATGT
TCAAGTTGAGGTGGCTGAGAAAGTGAGAAATCGTCTGCCCCCAGGAGATGCAGAAAGGCTGAAGAAAGGAAGT
CCCTGAGGACTCACTGGAGGAATGTGCCATCACTTATTCAAATAGCCATGGCCCTTATGACTCCAACAGCCACA
TAGGAAAACCAAATCACATTTGAGGAAGACAAAGTCACTCACTCTCATTGGCTCATCTCTCTGTAACG
GGAAGATGCTGTACACATTATTCCAGAAAATGAAAGTGATGATGAGGAAGAGGAAGAAAAGGGCCAGTGCTCC
CAGGAATCTGCAGGAGTCTGAAGAGGAGGAAGTCCCCCAGGAGTCTGGGATGAAGGTTATTGACTCCCTCAAT
TCCTCTGAAATGTTGGCTCGTACAAGTCTTACAGCAGCACATTTCACTCATTAGAGGAACAGCAAGTCTGCAT
GGCTGTTGACATAGGCAGACATCGGTGGGATCAAGTGAAAAGGAGGACCAAGAGGCAACAGGTCCCAGGCTCAG
CAGGGAGCTGCTGGATGAGAAAGGGCCTGAAGTCTTGAGGACTCACTGTATAGATGTTATTCAACTCCTTCAGG
TTGTCTTGAAGTACTGACTCATGCCAGCCCTACAGAAGTGCCTTTTACGTATTGGAGCAACAGCGTGTGGCTT
GGCTGTTGACATGGATGAAATTGAAAAGTACCAAGAAGTGGAAGAAGACCAAGACCCATCATGCCCCAGGCTCAG
CAGGGAGCTGCTGGATGAGAAAGAGCCTGAAGTCTTGAGGACTCACTGGGTAGATGGTATTGACTCCTTCAGG
TTATCTTGAAGTGCCTGACTTAGGCCAGCCCTACAGCAGTGTGTTTACTCATTGGAGGAACAGTACCTTGGCTT
GGCTCTTGAAGTGGACAGAATTAAGAGGACCAAGAAGAGGAAGAAGACCAAGGCCACCATGCCCCAGGCTCAG
CAGGGAGCTGCTGGAGGTAGTAGAGCCTGAAGTCTTGAGGACTCACTGGATAGATGTTATTCAACTCCTTCAG
TTGTCTTGAACAGCCTGACTCCTGCCAGCCCTATGGAAGTTCCTTTTATGCATTGGAGGAAAAACATGTTGGCTT
TTCTCTGACGTGGGAGAAATTGAAAAGAGGGGAAGGGGAAGAAAAGAGGGGAAGAAGATCAAAGAAGGAAAG
AAGAAGGGGAAGAAGAAGGGGAAGAAGATCAAAACCCACCATGCCCCAGGCTCAACGGCGTGCTGATGGAAGT
GGAAGAGCCTGAAGTCTTGAGGACTCACTGGATGGATGTTATTCTACTCCGTCAATGTACTTTGAACTACCTGA
CTCATTCAGCACTACAGAAGTGTGTTTTACTCATTTGAGGAACAGCACATCAGCTTCGCCCTTTACGTGGACAA
TAGGTTTTTTTACTTTGACGGTGACAAGTCTCCACCTGGTGTCCAGATGGAAGTCATATTCACACAATAAGCAGC
CCTTACTAAGCCGAGAGATGTCATTCTGCAGGCAGGACCTATAGGCAGGTGAAGATTTGAATGAACTACAGTT
CCATTTGGAAGCCCAGACATAGGATGGGTGAGTGGGCATGGCTCTATTCTTCTCAAACCATGCCAGTGGCAA
CCTGTGCTCAGTCTGAAGACAATGGACCCACGTTAGGTGTGACACGTTACATAACTGTGCAGCACATGCCGGGA

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FIGURE 323B

GTGATCAGTCAGACATTTTAATTTGAACCACGTATCTCTGGGTAGCTACAAAATTCCTCAGGGATTTTCATTTTGC
AGACATGTCTCTGAGCTTCTATACCTGCTCAAGGTCATTGTTCATCTTTGTGTTTAGCTCATCCAAAGGTGTTACC
CTGGTTTCAATGAACCTAACCTCATTCTTCGTGCTTCAGTGTTGGCTTGTTTTAGCTGATCCATCTGTAACACA
GGAGGGATCCTTGGCTGAGGATTGTATTTCAGAACCACCAACTGCTCTTGACAATTGTTAACCCGCTAGGCTCCT
TTGGTTAGAGAAGCCACAGTCCTTCAGCCTCCAATTGGTGTCAGTACTTAGGAAGACCACAGCTAGATGGACAAA
CAGCATTGGGAGGCCTTAGCCCTGCTCCTCTCAATTCCATCCTGTAGAGAACAGGAGTCAGGAGCCGCTGGCAGG
AGACAGCATGTCACCCAGGACTCTGCCGGTGCAGAATATGAACAATGCCATGTTCTTGCAGAAAACGCTTAGCCT
GAGTTTCATAGGAGGTAATCACCAGACAACCTGCAGAATGTAGAACAAGTGCAGGACAACCTGACCTGTCTCCTTC
ACATAGTCCTTATCACCACAAATCACAACAACAAAAGGAGAAGAGATATTTTGGGTTCAAAAAAGTAAAAAGAT
AATGTAGCTGCATTTCTTTAGTTATTTTGAACCCCAAATATTTCTCATCTTTTTGTTGTTGTCTGATGGATGGTGG
TGACATGGACTTGTTTATAGAGGACAGGTCAGCTGTCTGGCTCAATGATCTACATTCTGAAGTTGTCTGAAAATG
TCTTCATGATTAAATTCAGCCTAAACGTTTTGCCGGGAACACTGCAGAGACAATGCTGTGAGTTTCCAACCTCAG
CCCATCTGCCGGGCAGAGAAGGTCTAGTTTGTCCATCACCATTATGATATCAGGACTGGTTACTTGGTTAAGGAGG
GGTCTAGGAGATCTGTCCCTTTTAGAGACACCTTACTTATAATGAAGTACTTGGGAAAGCGGTTTTCAAGAGTAT
AAATATCCTGTATCTAATGATCATCCTCTAAACATTTTATCATTTATTAATCCTCCCTGCCTGTGCTATTATT
ATATTATATCTCTACGCTGCAAATTTTGGGTCTCAATTTTACTGTGCCTTTGTTTTTACTAGTGCTGCTGTT
GCAAAAAGAAGAAAACATTCTCTGCCTGAGTTTTAATTTTGTCCAAAGTTAATTTTAATCTATACAATTAAAC
CTTTTGCCTATCACTCTGGACTTTTGGATTGTTTTTACATTGAGTGTATAATATTTGATTATGCTGATTGGTT
TTGGTGGGTACTGATGCGAATTAATAAAAACATTTTCATTTCC

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FIGURE 324A

GTTTTGTAAC TCAACTGGCCGGCTTCTTGCCCAAGCAGCAGAACAAATACAAATATGAAGAGTGCAAAGACCTCA
TAAATCTATGCTGAGGAATGAGCTACAGTTCAAGGAGGAGAAGCTTGACAGCAGCTGAAGCAAGCTGAGGAGC
TCAGGTGAGGGGACCCCATGGGGCAGGCAGGGGGGAGGTGTGTAAATCTCTGAAGTACAACAGCTCGGTGGGG
AGACTTAAGAGCTAAGCTGGGCCAGGGGAAGGGCAGGAATTGCCATGGCAGGCTCGCTACACACAAATATTTATC
AAACAGAGAAGAAGGATAATAAAATTTATGGGTTGCAGTGTCTCTCAGAGCCTGTTTTCTTTTTCAAACAAGT
AATGTTGATGTGAAATTTACATAACACAAAATTAACCAAGGAGTGTGAACCACACAGCAGCATTAGTATACTC
AAAATGGTGTGCCATCACCACCCCACTTACCCTAGTGAGAAATCACCTCCTGACTGACTGCGGCTTCTCATTCTTT
CACTCAATCAATGTTGCCTTCTCGACCTGTCTATTCTTTCTTTCTTTCTTTCTTTCAATTCCGCCCTATCTGCATC
TGGCCTCATTTCTGTACATGGCTTTGTATCTAATGGCCGCAAGATGCACCTATGTGTATTTTCACATGGAAATGTC
CATGGCCAGAGTGAGGAAGTGAAGGATGTCTTTTGAACCGGAATTAGGAAGACACCTACTTTTGTGTACAGAG
GGGAAAGATGAATGGACATCATCGAGGATCTTGACAGGACCCCTCTCTGATACAGAGGAAGCCTGTAAACCATT
TCTATTCTTTCTCTTGCCACAGACATTCTTTCAACATGTGTGACCTTCTGCTTGGAGGTCTCCTTGAGGACA
TTGTCTCAGAAATCTCTGTTGCAATATTGAACGGATCACTCAACCCCTTCCACTCTTAAATTTCTCTACCGTC
TCACCTTAGGCAATATAAAGTCTGGTTCACTCTCAGGAACGAGAGCTGACCCAGTTAAGGGAGAAGTTACGGGA
AGGGAGAGATGCCTCCCGCTCATTGAATGAGCATCTCCAGGCCCTCCTCACTCCGGATGAGCCGGACAAGTCCCA
GGGGCAGGACCTCCAAGAACAGCTGGCTGAGGGGTGTAGACTGGCACAACACCTTGTCCAAAGCTCAGCCCAGA
AAATGATAACGATGACGATGAAGATGTTCAAGTTGAGGTGGCTGAGAAAGTGCAAGAAATCGTCTTCCCCAGGGA
GATGCAGAAGGCTGAAGAAAAGGAAGTCCCTGAGGACTCACTGGAGGAGTGTGCCATCACTTGTTCAAATAGCCA
TGGCCCTTATGACTCCAACAGCCACATAGGAAAACCAAAATCACATTTGAGGAAGACAAAGTCGACTCAACTCT
CATTGGCTCATCTCTCATGTTGAATGGGAGGATGCTGTACACATTATCCAGAAAATGAAAGTGATGATGAGGA
AGAGGAAGAAAAGGGCCAGTGTCTCCAGGAATCTGCAGGAGTCTGAAGAGGAGGAAGTCCCCAGGAGTCTTG
GGATGAAGGTTATTGACTCTCTCAATTCCTCCTGAAAGGTTGGCCTCATACCAAGTCTTACAGCAGCACATTCA
CTCATTAGAGGAACAGCAAGTCTGCATGGCTGTTGACATAGGCAGACATCGGTGGGATCAAGTGAAAAAGGAGGA
CCAAGAGGCAACAGGTCCAGGCTCAGCAGGGAGCTGCTGGCTGAGAAAGAGCCTGAAGTCTTGACAGGACTCACT
GGATAGATGTTATTCAACTCCTTCAGTTTATCTTGACTGACTGACTCATGCCAGCCCTACAGAAGTGCCTTTTA
CGTATTGGAGCAACAGCGTGTGGCTTGGCTGTTGACATGGATGAAATTGAAAAGTACCAAGAAGTGGAAGAAGA
CCAAGACCCATCATGCCCCAGGCTCAGCAGGGAGCTGCTGGCTGAGAAAGAGCCTGAAGTCTTGACAGGACTCACT
GGATAGATGTTATTGACTCCTTCAGGTTATCTTGAAGTGCCTGACTTAGGCCAGCCCTACAGAAGTGTCTTTTA
CTCATTGGAGGAACAGTACCTTGGCTTGGCTCTTGACGTGACAGAAATTAAGAGGACCAAGAAGAGGAAGAAGA
CCAAGGCCCACCATGCCCCAGGCTCAGCAGGGAGCTGCTGGGTTAGTAGAGCCTGAAGTCTTGACAGGACTCACT
GGATAGATGTTATTCAACTCCTTCCAGTTGTCTTGAACAGCCTGACTCCTGCCAGCCCTACAGAAGTCTCTTTTA
TGCAATTGGAGGAAAAACATGTTGGCTTTTCTCTTGACGTGGGAGAAATTGAAAAGAGGGGAAGGGAAGAAAAG
AAGGGGAAGAAGATCAAAGAAGAAAAGAAAGGGGAAGAAAAGAGGGGAAGAAGATCAAAACCCACCATGCCCC
CAGGCTCAACAGCGTGCTGATGGAAGTGGAAGAGCCTGAAGTCTTGACAGGACTCACTGGATAGATGTTATTCGAC
TCCATCAATGTACTTTGAACTACCTGACTCATTCCAGCACTACAGAAGTGTGTTTTACTCATTGAGGAACAGCA
CATCACCTTTGCCCTTGACATGGACAATAGCTTTTTTACTTTGACGGTGACAAGTCTCCACCTGGTCTTCCAGAT
GGGAGTCATATTCCCAATAAGCAGCCCTTACTAAGCCGAGAGGTGTCATTCTGCAGGCAGGACCTATAGGCA
CCTGAAGATTTGAATGAAACTATAGTTCCATTTGGAAGCCAGACATAGGATGGGTCAGTGGGCATGGCTCTATT
CCTATTCTCAGAGCATGCCAGTGGCAACCTGTGCTCAGTCTGAAGACAATGGACCCACGTTAGGTGTGACACGTT
CACATAACTGTGCAGCAGATGCCGGGAGTGATCAGCCGGACATTTTAATTTGAACCATGTATCTCTGGGTAGCTA
CAAAATTCCTCAGGGATTTCAATTTTGACGGCATGTCTCTGAGCTTCTATACCTACTCAAGGTCAAGTGTCTCTTT
GTGTTTAGTTCATCAAAGGTGTTACCTGGTTTCAATGAACCTAACCTCATTATTTGTGTCTCAGTGTGGCT
TGTTTTAGCTGATCCATCTGTAACACAGGAGGGATCCTTGGCTGAGGATTGTATTTCAGAACCACCAACTGCTCT
TGACAATTGTTAACCCTAGGCTCCTTTGGTTAGAGAAGCCACAGTCTTCAGCCTCCAATTGGTGTGACTACT
TAGGAAGACCACAGCTAGATGGACAAACAGCATTGGGAGGCCCTTAGCCCTGCTCCTCTCAATTCCATCCTGTAGA
GAACAGGAGTCAGGAGCCGCTGGCAGGAGACAGCATGTACCCAGGACTCTGCCGGTGCAGAAATATGAGCAATGC
CATGTICTTGAGAAAACGCTTAGCCTGAGTTTATAGGAGGTAATCACCAGACAAGTGCAGAAATGTAGAACACT
GAGCAGGACAAGTACCTGTCTCCTTCACATAGTCCATATCACCACAAATCACACAACAAAAGGAGAAGAGATA

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FIGURE 324B

TTTTGGGTTGAAAAAAGTAAAAAGATAATTAGCTGCATTTCTTTAGTTATTTTGAACCCCAAATATTTTCCTCAT
CTTTTGTGTTGTTCATTGATGGTGGTGACATGGACTTGTTTATAGAGGACAGGTCAGCTCTCTGGCTCAATGAT
CTACATTCTGAAGTTGTCTGAAAATGTCTTCATGATTAAATTCAGCCTAAACTTTTTGCTGGGAACACTGCAGAG
ACAAATGCTGTGAGTTTCCAACCTCAGCCCATCTGCGGGCAGAGAAGGTCTAGTTTGTCCATCACCATTATGATAT
CAGGACTGGTTACTTGGTTAAGGAGGGGTCTAGGAGATCTGTCCCTTTTAGAGACACCTTACTTATAATGAAGTA
CTTGGGAAAGCGGTTTTCAAGAGTATAAATATCCTGTATTCTAATGATCATCCTCTAAACATTTTATCATTATT
AATCCTCCCTGCCTGTGTCTATTATTATATACATATCTCTACGCTGCAAATTTTGGGTCTCAATTTTACTGTGC
CTTTGTTTTTACTAGTGTCTGCTGTTGCAAAAAGAAGAAACATTCTCTGCCTGAGTTTTAATTTTGTCCAAAG
TTAATTTAATCTATACAATTAAAACCTTTTGCCTATC

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FIGURE 325

MLRNELQFKEEKLAEQKQAEELRQYKVLVHSQERELTQLREKLREGRDASRSLNEHLQALLTPDEPKSQGGDL
QEQLAEGCRLAQHLVQKLSPENDNDDDEDVQVEVAEKVKSSSPREMQAEEKEVPEDSLEECAITCSNSHGPYD
SNQPHRKTKITFEEDKVDSTLIGSSSHVEWEDAVHIIPENESDDEEEEKGPVSPRNLQSEEEEEVPQESWDEGY
STLSIPPERTSVGSSEKGGPRGNRSQAQGAAG

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FIGURE 326

CTCCGCGGTCTTCTGAGCGGTACGTGAACGGCTTCTGTCAGGCTGGCCATGGCGCTTCAAGTTCCCAAGGCTCC
GGGCTTCGCCCAGATGCTCAAGGAGGGAGCGAAACACTTTTCAGAATTAGAAGAGGCTGTGTATAGAAACATACA
AGCTTGCAAGGAGCTTGCCCAAACCACTCGTACAGCATATGGACGAAATGGAATGAAAAAATGGTTATCAACTA
CTTGGAAGAGTTGTTTGTGACAAATGATGCAGCGACTATTTTAAGAGAACTAGAAGTACAGCATCCTGCTGCAAA
AATGACTGTAATGGCTTCTCATATGCAAGAGCAAGAAGTTGGAGATGGCACAAACATTGTTCTGGTATTGCTGG
AGCTCTCCTGGAATTAGCTGAAGAACTTCTGAGGATTGGCCTGTCAGTTTCAGAGGTCATAGAAGGTTATGAAAT
AGCTTGCAAGAAAGCTCATGAGATTCTTCCTAATTTGGTACGTTGTTCTGCAAAAAACCTTCGAGATGTTGATGA
AGTCTCATCTCTACTTCGTACCTCTGTAATGTGTAAACAATATGGTAATGAAGTATTTCTGGCCAAGCTTATTGT
TCAGGCATGCGTATCTATTTTCTGATTCTGGCCATTTCAAAGTTGATAACATCAGAGTTTGTAAAAATTCTGGG
CTGTGGTATCACTTCCTCTTCAGTATTGCATGGCATGGTTTTTAAGAAGGAAACAGAAGGTGATGTACATCTGTC
AAAGATGCAAAAATAGCAGTGTACTCTTGTCCTTTTGATGGCATGATAACAGAACTAAGGGAACAGTGTGATA
AAGACTGATGAAGAATTGATGAATTTAAGTAAGGGAGAAGAAAATCTCATGGATGCATAAGTCAAAGCTATTGCT
GATACTGGTGCAAATGTTGTAGTAACAGGTGGCAAAGTGGCAGACATGGCTCTTCATTATGCAACAAATATAAT
ATGATGTTAGTGAAGCTAAACTCAAAATGGGATGTCTGAAGACTCTGTAAAACAGTTGGTGCTACAGCTCTTCCT
AGATTGACACCTCCTGTCCTTGAAGAAATGGGACACTGAGACAGTGTTCCTCTCAGAAGTTGGAGATACTCAG
GTGGTGGTTTTTAAGCATGAAAAGGAAGATGGCATCATTTCTACCATAGTACTTCAGGGCTCTACAGACAATCTG
ATGGATGACATAGAAAGGGCAGTAGATGATGGTGTTAATACTTTCAAAGTTCTTACAAGGGATAAACGCTCTTGTA
CCCGGAGGTGGAGCAACAGAAATTGAATTAGCCAAACAGATCACATCATATGGAGAGACATGTCCTGGACTTGAA
CAGTACGCTATTAAAGAAGTTTGCTGAGGCGTTTGAAGCTATTCCCGTGCCTGGCAGAAATACTCTGGAGAAAA
CTCTGGAGTTAAGGCCAATGAAGTAATCTCTAACTTTATGCAGTACCTCAAGAAGGAAATAAAAAATGTTGGATT
AGATACTGAGGCTGTAGTCCCTGCTGTAACGGACATGTTGGAAGCTGGTGTCTAGATACTTACCTGGGAAAACA
CTGGTCTATCAAACCTCGCTGCTAATGCTGCAGTCACTGTACTTAGAGTGGGTCAGGTAATCATGGCAAAACAGAG
TGGTGGGCCCCAAGCCTCCAAGTGGGAAGAAAGACTGGGATGATGACCAAAATGATTGAAATTGGCTTAATTTTA
CTGTAGGTGAAGGCTGATTTGTAGTAGTATTCTAAGAATCGCGTGATGTTTTCTTATTCTCCTTACATTAAGAG
GTATTTTGTGTTTGTATTCTTGGCTGGATGTTATAATAAACATATTGTTACTGTC

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FIGURE 327

GGGCTTCGCCAGATGCTCAAGGAGGGAGCGAAACACTTTTCAGAATTAGAAGAGGCTGTGTATAGAAACATACA
AGCTTGCAAGGAGCTTGCCCAAACCACTCGTACAGCATATGGACGAAATGGAATGAAAAAATGGTTATCAACTA
CTTGGAGAAGTTGTTGTGACAAATGATGCAGCGACTATTTAAGAGAACTAGAAGTACAGCATCCTGCTGCAAA
AATGACTGTAATGGCTTCTCATATGCAAGAGCAAGAAGTTGGAGATGGCACAAACATTGTTCTGGTATTTGCTGG
AGCTCTCCTGGAATTAGCTGAAGAACTTCTGAGGATTGGCCTGTCAGTTTCAGAGGTCATAGAAGGTTATGAAAT
AGCTTGCAAAAAGCTCATGAGATTCTTCCTAATTTGGTACGTTGTTCTGCAAAAACCTTCGAGATGTTGATGA
AGTCTCATCTCTACTTCGTACCTCTGTAATGTGTAAACAATATGGTAATGAAGTATTTCTGGCCAAGCTTATTGT
TCAGGCATGCGTATCTATTTTTCTGATTCTGGCCATTTCAAAGTTGATAACATCAGAGTTTGTAATAATTCTGGG
AACAGTGTTGATAAAGACTGATGAAGAATTGATGAATTTAAGTAAGGGAGAAGAAAATCTCATGGATGCATAAGT
CAAAGCTATTGCTGATACTGGTGCAAATGTTGTAGTAACAGGTGGCAAAGTGGCAGACATGGCTCTTCATTATGC
AAACAAATATAATATGATGTTAGTGAAGCTAAACTCAAATGGGATGCTCTGAAGACTCTGTAAAACAGTTGGTGC
TACAGCTCTTCCTAGATTGACACCTCCTGTCCTTG

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FIGURE 328

GTGGGTAGGAGCTTGCTTATAGAAAAGTGAATCGAGTAGTCCTTGCTGGTGGAGCCGCTGCCGCCAGGGAAC TC
AGGGCCGGCTCCTGTTTCCTTCAAGAGTGCTGGAGGCCAACTTGAAATACAAGTTTAATGTTTCCTCGTCGGGCAA
AAGATAAGGATCCGATCTCCCCGGCCCCGGTGTGCAGCAGGAGCGACCAACCCCGACCCGGGTAAAACTCCAG
GGACTCTTCGCTGCTGCCACCTCTTGTTCTCTCCCCGTTCCCACTCGGGGTCTCCCTCAGGGCCGGGAGGCACA
GCGGTCCCTGCTTGCTGAGGGGCTGGATGTACGCATCCGCAGGTTCCCGCGGACTTGGGGGCGCCCGCTGAGCCC
CGGCGCCCGCAGAAGACTTGTTGTTGCCTCCTGCAGCCTCAACCCGGAGGGCAGCGAGGGCCTACCACCATGATC
ACTGGTGTGTTTCAGCATGCGCTTGTTGGACCCCACTGGGCGTCTTGACCTCGCTGGCGTACTGCCTGCACCAGCGG
CGGGTGGCCCTGGCCGAGCTGCAGGAGGCCGATGGCCAGTGTCCGGTCGACCGCAGCCTGCTGAAGTTGAAAATG
GTGCAGGTCGTGTTTCGACACGGGGCTCGGAGTCTCTCAAGCCGCTCCCGCTGGAGGAGCAGGTAGAGTGGAAC
CCCCAGCTATTAGAGGTCCCACCCCAAACCTCAGTTTGATTACACAGTCACCAATCTAGCTGGTGGTCCGAAACCA
TATTCTCCTTACGACTCTCAATACCATGAGACCACCTGAAGGGGGGCATGTTTGCTGGGCAGCTGACCAAGGTG
GGCATGCAGCAAATGTTTGCTTGGGAGAGAGACTGAGGAAGAACTATGTGGAAGACATTCCCTTTCTTTACCA
ACCTTCAACCCACAGGAGGTCTTTATTGTTCCACTAACATTTTTCGGAATCTGGAGTCCACCCGTTGTTTGCTG
GCTGGGCTTTTCCAGTGTGAGAAAGAAGGACCCATCATATCCACACTGATGAAGCAGATTGAGAGTCTTGAT
CCCAACTACCAAAGCTGCTGGAGCCTGAGGCAGAGAACCAGAGGCCGGAGGCAGACTGCCTCTTTACAGCCAGGA
ATCTCAGAGGATTTGAAAAAGGTGAAGGACAGGATGGGCATTGACAGTAGTGATAAAGTGGACTTCTTCATCCTC
CTGGACAACGTGGCTGCCGAGCAGGCACACAACCTCCCAAGCTGCCCCATGCTGAAGAGATTGACCGGATGATC
GAACAGAGAGCTGTGGACACATCCTTGATACATACTGCCCAAGGAAGACAGGGAAAGTCTTCAGATGGCAGTAGGC
CCATTCTCCACATCCTAGAGAGCAACCTGCTGAAAGCCATGGACTCTGCCACTGCCCCGACAAGATCAGAAAG
CTGTATCTCTATGCGGCTCATGATGTGACCTTCATACCGCTCTTAATGACCCTGGGGATTTTGTACCACAAATGG
CCACCGTTTGCTGTTGACCTGACCATGGAACCTTACCAGCACCTGGAATCTAAGGAGTGGTTTGTGCAGCTCTAT
TACCACGGGAAGGAGCAGGTGCCGAGAGGTTGCCCTGATGGGCTCTGCCCGCTGGACATGTTCTTGAATGCCATG
TCAGTTTATACCTTAAGCCAGAAAAATACCATGCACTCTGCTCTCAAACCTCAGGTGATGGAAGTTGGAATGAA
GAGTAACTGATTTATAAAAGCAGGATGTGTTGATTTTAAAAATAAAGTGCCTTTATACAATGCCAAAAAAAAAAAA
AAAAAAAAAAAA

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FIGURE 329

MITGVFSMRLWTPVGVLTSLAYCLHQRRVALAELQEADGQCPVDRSLLKLMVQVVFRHGARSPLKPLPLEEQVE
WNPQLLEVPPQTQFDYTVTNLAGGPKPYSPYDSQYHETTLKGGMFAGQLTKVGMQQMFALGERLRKNYVEDIPFL
SPTFNPQEVFIRSTNIFRNLESTRCLLAGLFQCQKEGPIIHTDEADSEVLYPNYQSCWSLRQTRGRRQTASLQ
PGISED LKKVKDRMGIDSSDKVDFFILLDNVAAEQAHNLPSCPMLKR FARMIEQRAVDTSLYILPKEDRESLQMA
VGPFLHILES NLLKAMDSATAPDKIRKLYLYAAHDVTFIPLMTLGIFDHKWPPFAVDLTMELYQHLESKEWFVQ
LYYHGKEQVPRGCPDGLCP LDMFLNAMS VYTLSP EKYHALCSQTQVMEVGNEE

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FIGURE 330

CTTAAAGTGAAATAATTTTTTGCAAAGGGGTTTCCTCGATTTGGAGCTTTTTTTTTCTTCCACCGTCATTTCTAA
CTCTTAAACCAACTCAGTTCCATCATGGTGATGTTCAAGAAGATCAAGTCTTTTGAGGTGGTCTTTAACGACCC
TGAAAAGGTGTACGGCAGTGGCGAGAAGGTGGCTGGCCGGGTGATAGTGGAGGTGTGTGAAGTTACTCGTGTCAA
AGCCGTTAGGATCCTGGCTTGCGGAGTGGCTAAAGTGCATCCTCAACAACAATGTGCAGTGAGCATGTGGAAGAA
AAGAAGCAGCTTTACCTACTTGTTTCTTTTTGTCTCTCTTCCTGGACACTCACTTTTTCAGAGACTCAACAGTCT
CTGCAATGGAGTGTGGGTCCACCTTAGCCTCTGACTTCCTAATGTAGGAGGTGGTCAGCAGGCAATCTCCTGGGC
CTTAAAGGATGCGGACTCATCCTCAGCCAGCGCCCATGTTGTGATACAGGGGTGTTTGTGGATGGGTTAAAAA
TAACTAGAAAACTCAGGCCCATCCATTTTCTCAGATCTCCTTGAAAATTGAGGCCTTTTCGATAGTTTCGGGTC
AGGTAAAAATGGCCTCCTGGCGTAAGCTTTTCAAGGTTTTTGGAGGCTTTTGTAAATTGTGATAGGAACTTTG
GACCTTGAACCTTATGTATCATGTGGAGAAGAGCCAATTTAACAACTAGGAAGATGAAAAGGGAATTGTGGCCA
AAACTTTGGGAAAA

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FIGURE 331

TGACTTGCTCACTATCATGAAC TCAAAAGAACTAGCAATTTTTTAGACTTCTTTTGGGATCCTTGTACCGCATC
CTATACTGCTTTTATGTTTCATGTGTGCATTTGTGTACATGTATACACATATTACTCCATAACGAAGCACAGTCTT
CTTTTATACCTTTTCCTGGTTGGGGTAGTAGAGGAATTTTACAGCCTACAATCAGACACATCCAGAAGAAGAGTGG
AATATGTATGATACCTTAAAAATCAGCACATTTAACAAAGTATAACTTACTCATGGTTACAAC TAAGTTAATGTT
TTTTCCCTTTATTTTTTCAAAAGGCTCATTTTTCTCCATTTCTCTACTATCAAAGTCAAGAACTGCCCAATGGCTC
TGTC AAGGAGGCTCCAGCTCCTACTCCCACTTCTCTGGAAGTCTCAAGTCCACCAGATACTACAGAGGAAGAAGA
TCATAAGCCTAAACTCTGCAGGCTGGCTAAAGGTGAAAATGGCTATGGCTTTCAC TTAAATGCGATTTCGGGGTCT
GCCAGGCTCATTTCATAAAGAGGTACAGAAGGGCGGTCCTGCTGACTTGGCTGGGCTAGAGGATGAGGATGTCAT
CATTGAAGTGAATGGGGTGAATGTGCTAGATGAACCCATGAGAAGGTGGTGGATAGAATCCAGAGCAGTGGGAA
GAATGTCACACTTCTAGTCTGTGGAAAGAAGGCCTATGATTATTTCCAAGCTAAGAAAATCCCTATTGTTTCCTC
CCTGGCTGATCCACTTGACACCCCTCCAGATTCTAAAGAAGGAATAGTGGTGGAGTCAAAGCATGACTCGCACAT
GGCAAAAGAACGGGGCCACAGTACAGCCTCACATTCTTCTTCCAATTCTGAAGATACAGAGATGTGATGAAAACA
AGCGGCTATTGCAGACGGCTAATTTATGCTTAACTTAGGAAGAGATAAGGTTCCCTTGAGCACCAAAGATGATTCA
TAACTCTGTATAGGTGACAGCTGCTTATAAAAGCATCTTAGCAGATAAGCCTATTAAAATTGTGCTTTTGTAAACA
ATGTTGTGGTTGCTAGATAAATAACCATTAACAAA

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FIGURE 332

GTCCCAACTCTTGACTCCATTGCTATTCTCTCTTTCTCCCCACACCTATCTGGTGGTGGTAGTGGGCGTTT
ATATTTGCGTTCCTTTTCATTCAATTTCTAAATCTCTTAAAAATTTTGGGTGGGGGTATTGGGGAAGGCAGGAAA
GGGAAAAGGAGAGTAGTAGCTGAAGAGCAAGAGGAGGACATGGAGATGAAGAAGAAGATTAACTGGAGTTAAGG
AACAGATCCCCGGAGGAGGTGACAGAGTTAGTCCTTGATAATTGCCTGTGTGTCAATGGGGAAATTGAAGGCCTG
AATGATACTTTCAAAGAACTAGAATTTCTGAGTATGGCTAATGTGGAATAAGTTCGCTGGCCCGGCTTCCCAGC
TTAAATAAACTTCGAAAATTGGAGCTTAGTGATAATATAATTTCTGGAGGCTTGAAGTCTTGGCAGAGAAATGT
CCAAATCTTACCTACCTCAATCTGAGTGGAAACAAAATAAAAGATCTCAGTACAGTAGAAGCTCTGCAAAATCTT
AAAAATTTGAAAAGTCTTGACCTGTTTAACTGTGAGATCACAAACCTGGAAGATTATAGAGAAAGTATTTTGAA
CTACTGCAGCAAATCACATACTTAGATGGATTTGATCAGGAGGATAATGAAGCGCCGGACTCTGAAGAGGAGGAT
GATGAGGATGGAGATGAAGATGATGAAGAGGAAGAGGAAAATGAAGCTGGTCCACCGGAAGGATATGAGGAAGAG
GAGGAGGAAGAGGAAGAGGAGGATGAGGATGAGGATGAAGATGAAGATGAAGCAGGTTGAGAGTTGGGAGAGGGA
GAAGAGGAAGTGGGCCTCTCATACTTAATGAAAGAAGAAATTCAGGATGAAGAAGATGATGATGACTATGTTGAA
GAAGGGGAAGAAGAGGAAGAAGAGGAAGAAGGAGGTCTTCGAGGGGAGAAGAGGAACGAGATGCTGAAGACGAT
GGAGAGGAAGAAGATGACTAGATCATTCTAAGACCAGATTCTCTAATGTTTCTGGGTGTGCAATAGAGTGATCAC
ATCTTTGTTTCTTCATGTACGATAGCTATCCCTACAGAAGATAATGTGTAACTTTTATAGGAAAAGTGTGGTTT
TACTATTTTGCCTTATCATTCCAAATAAGAACTAGTCTGTTAATGATCATATTGTATGTAGAGAAAAATTTCA
TTGACTCCCATTTGTGGAATTCCTAGCAATTTATTTAGACTTAATTTTTTAAATTCAAGCTTACTGTATTAGTCA
TTTTTAGCCCATAAATTAAACATGATCACTTTTAAAAAAAAAAAAAAAAAAAAA

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FIGURE 333

MEMKKKINLELRNRSPEEVTELVLDNCLCVNGEIEGLNDTFKELEFLSMANVELSSLARLP
ISGGLEVLAEKCPNLTYLNLSGNKIKDLSTVEALQNLKSLDLFNCETNLEDYRESIFELLQ
EDNEAPDSEEEDEDEDGDEDEDEEEENEAGPPEGYEEEEEEEEDEDEDEDEDEAGSELGE
IQDEEDDDDYVEEGEEEEEEEEEGGLRGEKRRDAEDDGEEEDD

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FIGURE 334

GTGGGGTCGCGTTGCCACCCACGCGGACTCCCCAGCTGGCGCGCCCTCCCATTTGCCTGTCTGGTCAGGCCC
CCACCCCCCTTCCACCTGACCAGCCATGGGGGGCTGCGGTGTTTTTCGGCTGCACTTTCGTGCGGTTTCGGCCCCGG
CCTTCGCGCTTTTTCTTGATCACTGTGGCTGGGGACCGCTTCGCGTTATCATCCTGGTCGAGGGGCATTTTTCT
GGCTGGTCTCCCTGCTCCTGGCCTCTGTGGTCTGGTTCATCTTGGTCCATGTGACCGACCGGTCAGATGCCCGGC
TCCAGTACGGCCTCCTGATTTTTTGGTGCTGCTGTCTCTGTCTTCTACAGGAGGTGTTCCGCTTTGCCTACTACA
AGCTGCTTAAGAAGGCAGATGAGGGGTAGCATCGCTGAGTGAGGACGGAAGATCACCCATCTCCATCCGCCAGA
TGGCCTATGTTTTCTGGTCTCTCCTTCGGTATCATCAGTGGTGTCTTCTCTGTTATCAATATTTTGGCTGATGCAC
TTGGGCCAGGTGTGGTTGGGATCCATGGAGACTCACCTATTACTTCCTGACTTCAGCCTTTCTGACAGCAGCCA
TTATCCTGCTCCATACCTTTTGGGGAGTTGTGTTCTTTGATGCCTGTGAGAGGAGACGGTACTGGGGCTTTGGGCC
TGGTGGTTGGGAGTCACCTACTGACATCGGGACTGACATTCTGAACCCCTGGTATGAGGCCAGCCTGCTGCCCA
TCTATGCAGTCACTGTTTCCATGGGGCTCTGGGCCTTCATCACAGCTGGAGGGTCCCTCCGAAGTATTCAGCGCA
GCTCTTGTAAGGACTGACTACCTGGACTGATCGCCTGACAGATCCCACCTGCCTGTCCACTGCCCATGACTGA
GCCAGCCCCAGCCCCGGGGTCCATTGCCACATTCTGTCTCCTTCTCGTCGGTCTACCCCACTACCTCCAGGG
TTTTGCTTTGTCTTTTGTGACCGTTAGTCTCTAAGCTTTACCAGGAGCAGCCTGGGGTTCAGCCAGTCAGTGACT
GGTGGGTTTGAATCTGCACCTATCCCCACCACCTGGGGACCCCTTGTTGTGTCCAGGACTCCCCCTGTGTCAGT
GCTCTGCTCTCACCTGCCCAAGACTCACCTCCCTTCCCCTCTGCAGGCCGACGGCAGGAGGACAGTCGGGTGAT
GGTGTATTCTGCCCTGCGCATCCCACCGAGGACTGAGGGAACCTAGGGGGGACCCCTGGGCCTGGGGTGCCCTC
CTGATGTCTCGCCCTGTATTTCTCCATCTCCAGTTCTGGACAGTGCAGGTTGCCAAGAAAAGGGACCTAGTTTA
GCCATTGCCCTGGAGATGAAATTAATGGAGGCTCAAGGATAGATGAGCTCTGAGTTTCTCAGTACTCCCTCAAGA
CTGGACATCTTGGTCTTTTTCTCAGGCCTGAGGGGGAACCATTTTTTGGTGTGATAAATACCCTAAACTGCCTTTT
TTTCTTTTTTGGAGTGGGGGGAGGGAGGAGGTATATTGGAACCTCTTCTAACCTCCTTGGGCTATATTTCTCTCC
TCGAGTTGCTCCTCATGGCTGGGCTCATTTCGGTCCCTTTCTCCTTGGTCCCAGACCTTGGGGGAAAGGAAGGAA
GTGCATGTTTGGGAACGGCATTACTGGAACATAATGGTTTTAACCTCCTTAACCAACAGCATCCCTCCTCTCCCC
AAGGTGAAGTGGAGGGTGCTGTGGTGAGCTGGCCACTCCAGAGCTGCAGTGCCACTGGAGGAGTCAGACTACCAT
GACATCGTAGGGAAGGAGGGGAGATTTTTTTGTAGTTTTTAATTGGGGTGTGGGAGGGGCGGGGAGGTTTTCTAT
AACTGTATCATTTTCTGCTGAGGGTGGAGTGTCCCATCCTTTAATCAAGGTGATTGTGATTTTACTAATAAA
AAAGAATTTGTAAAAA

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FIGURE 335

MGAAVFFGCTFVAFGPAFALFLITVAGDPLRVIIILVAGAFFWLVSLLLASVVWFILVHVTD RSDARLQYGLLIFG
AAVSVLLQEVFRFAYYKLLKKADEGLASLSE DGRSPISIRQMAYVSGLSFGIISGVFSVINILADALGPGVVG I H
GDSPYYFLTSAFLTAAIILLHTFWGVVFFDACERRRYWALGLVVGSHLLTSGLTFLNPWYEASLLPIYAVTVSMG
LWAFITAGGSLRSIQRSSCVRTDYLD

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FIGURE 336

TTCCGGTGGGCTAGGTACTGAGCGCGCGAGGCTCTACAGAGTGAAGGTTTAAATCCAAGGTCATGGCAAAACATC
TGAAGTTCATCGCCAGGACTGTGATGGTACAGGAAGGGAACGTGGAAAGCGCATACAGGACCCTAAACAGAATCC
TCACTATGGATGGGCTCATTGAGGACATTAAGCATCGGCGGTATTATGAGAAGCCATGCCGCCGGCGACAGAGGG
AAAGCTATGAAAGGTGCCGGCGGATCTACAACATGGAAATGGCTCGCAAGATCAACTTCTTGATGCGAAAGAATC
GGGCAGATCCGTGGCAGGGCTGCTGAGGCCTGTGGGTGGGACACCCAGTGCGAAACCCTCATCCAGTTTCTCTC
CATCTCTTTCTTTGTACAATCCCATTTCCTATTACCATTCTCTGCAATAAACTCAAATCACATGTCTGCAAAAA

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FIGURE 337

MAKHLKFIARTVMVQEGNVESAYRTLNRILTMGLIEDIKHRRYYEKP CRRRQRESYERCRRIYNMEMARKINFL
MRKNRADPWQGC

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FIGURE 338A

ATGTCCTCCACTTCTGAGAAGCATCTGTGACATCACTGAAATTTTCAATCAGTATGTCTCTCATGATTGTGATGGA
GCAGCATTAACTAAGAAAGACCTGAAGAACCTCCTTGAAAGGGAATTTGGAGCTGTGCTTCGGAGACCACATGAC
CCTAAGACGGTAGATCTGATCCTGGAACCTTCTGGATCTTGACAGTAATGGGCGTGTGATTTCACGAATTCCTC
CTATTTATTTTCAAAGTGGCTCAAGCTTGTTACTATGCTCTCGGCCAGGCCACGGGACTGGATGAGGAGAAGCGA
GCCCCGTGTGACGGAAGGAGAGCCTGTTACAAGATCGCAGGCAAGAAGAAGACCAAAGGAGATTTCGAGCCCCGG
GACAGACAACCTGGAAGAAGAACCTGGGCAACGACGACGAGGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG
GGAGAGGAGCAAGTGAGAAACAAGAGCGACTTGAACAGCGCGACAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG
CAAAGGCAAGAATGGCAAGAACGGGAAGAGCGCGTGCAGAGGAAGAGCAGCTGCAGAGTTGCAAAGGTCACGAA
ACTGAGGAGTTTCCAGACGAAGAGCAACTGCGAAGGCGGGAGCTGCTGGAGCTGAGGAGGAAGGGCCGCGAGGAG
AAACAGCAGCAAAAGGCGAGAGCGGCAAGACAGAGTGTTCAGGAGGAAGAAGAGAAAGAGTGAGGGAAGCGCGAG
ACAGTGCTCCGGAAGGAAGAAGAGAAGCGCGAACGTTGGCTGAAGCTCGAGGAGGAGGAGGAGGCGCGAGCAGCAG
GAGAGGCGCGAGCAGCAACTAAGGCGGGAGCAAGAGGAGAGGCGCGAGCAGCGGCTGAAGCGCCAGGAGGAGGAA
GAGAGGCTCCAGCAGCGTTGAGGAGCGAGCAACAATAAGACGCGAGCAGGAGGAGAGGCGCGAGCAGCTGCTG
AAGCGCGAGGAGGAGAAGAGGCTCGAGCAGGAGAGGCGAGAGCAGCGGCTGAAGCGCGAGCAGGAGGAGAGGCGC
GATCAGCTGCTGAAGCGCGAGGAGGAGAGGCGCCAGCAGCGGCTGAAGCGCGAGCAGGAAGAGAGGCTCGAGCAG
CGACTGAAGCGCGAGGAGGTGGAGAGACTCGAGCAGGAGGAGAGGCGCGAGCAGCGGCTGAAGCGCGAGGAGCGG
GAGGAAGAGAGGCGCCAGCAGCTGCTGAAGAGCGAGGAGCAGGAGGAGAGGCGCCAGCAGCAACTAAGGCGCGAG
CAGCAGGAAGGCGCGAGCAGCGGCTGAAGCGCGAGGAGGAGGAAGAGAGGCTCGAGCAGCGGCTGAAGCGCGAG
CATGAGGAAGAGAGGCGCGAGCAGGAGCTAGCTGAGGAGGAGCAGGAACAGGCCCGGGAGCGGATTAAGAGCCGC
ATCCCGAAGTGGCAGTGGCAGCTAGAAAGCGAGGCGCAGCAGCGGCAAGCAAAGTCTACTCGAGGCCCCGCAAG
CAGGAAGGGCAGAGGCGCGCCCAAGAGCAGGAGGAAAAGAGGCGGCGCGGGAGAGTGAGCTGCAATGGCAGGAG
GAGGAACGGGCTACCGGCAGCAGCAGGAAGAGGAGCAGCGCCGGGACTTCACATGGCAGTGGCAGGCGGAGGAA
AAGAGCGAGAGGGGCGCTCAGAGGCTGTGCGCCAGGCCCCATTGCGGGAGCAGCGGGAGAGGCGAGCTGAGGGCC
GAGGAGCGCCAGCAGCGGGAACAACGTTTCTCCCGAGGAGGAGGAGGAAGGAGCAGCGGCGCCGCGCAGCGACGC
GAGAGGGAGAAAGAGCTGCAGTTCTTGAGGAAGAGGAGCAGCTCCAGCGCGGGAGCGTGCCCAACAGCTCCAG
GAGGAGGAGGACGGCTCCAGGAGGATCAGGAGAGGAGGCGAAGCCAGGAGCAGCGCCGCGACCAAAATGGAGG
TGGCAACTAGAAAGAAAGGAAGAGACGCCACACGCTGTACGCCAAGCCAGCCCTACAAGAGCAGCTGAGG
AAGGAACAGCAGTGTGTCAGGAGGAGGAGGAGGAGCTACAGAGAGAGGAGCGCGAGAAGAGAAGGCGCCAAGAA
CAGGAGAGACAATACCGCGAGGAAGAGCAGCTGCAGCAGGAGGAAGAGCAGCTGCTGAGAGAGGAACGGGAGAAA
AGAAGACGCCAGGAGCGGGAAGGCAATATCGGAAGGATAAGAAGCTGCAGCAGAAGGAAGAGCAGCTGCTGGGA
GAGGAACCGGAGAAGAGAAGGCGCCAGGAGCGGGAGAAAAATACCGCGAGGAAGAGGAGTTGCAGCAGGAGGAA
GAGCAGCTGCTGAGAGAGGAACGGGAGAAAGAGAAGGCGCCAGGAGTGGGAGAGGCAGTACCGCAAAAAGACGAG
CTGCAGCAGGAAGAAGAGCAGCTGCTGAGAGAGGAACGGGAGAAAAGAAGACTCCAGGAGCGGGAGAGGCAATAT
CGGGAGGAAGAGGAGCTGCAGCAGGAGGAAGAGCAGCTGCTGGGAGAGGAACGGGAGACGAGAAGGCGCCAGGAG
CTGGAGAGGCAATATCGGAAGGAAGAGGAGCTGCAGCAGGAGGAAGAGCAGCTGCTGAGAGAGGAACCGGAGAA
AGAAGGCGCCAGGAGCGGGAGAGGCAATGCAGAGAGAATGAACAGTTCCGGCAGTTGGAAGATTCCCAGCTGCGC
GACAGACAATCCCAGCAAGATCTGCAGCACCTGCTGGGTGAACAGCAAGAGCGAGATCGTGAGCAAGAGAGGAGG
CGCTGGCAGCAGCGCGACAGGCATTTCCAGAGGAAGAACAGCTGGAGCGAGAAGAGCAAAAGGAAGCCAAAAGG
CGCGACAGGAAGTCCCAAGAGGAAAAGCAGTTGCTGAGAGAGGAAAGAGAAGAGAAGAGACGCCGTCAAGAGACA
GACAGAAAATTCCGCGAGGAGGAACAGCTGCTCCAGGAAGGGAGGAACAGCCGCTGCGCCGCAAGAGCGGTGAC
AGAAAATTCCGCGAAGAGGAACCTGCGCCATCAGGAACAAGGGAGAAAATTCTCGAGGAGGAACAGCGGCTGCGC
CGCCAGGAACGGGAGAGAAAATTCTTAAGGAGGAACAGCAGCTGCGCTGCCAGGAGCGCGAGCAACAGCTGCGT
CAGGACCGCGACAGAAAATTCCGCGAGGAGGAACAGCAGCTGAGCCGCCAAGAGCGTGACAGAAAATTCCGTGAA
GAGGAACAGCAGGTGCGCCGCCAGGAACGAGAGAGAAAATTCTTGAGGAGGAACAGCAGCTGCGCCAGGAGCGT
CACAGAAAATTCCGCGAAGAGGAACAGCTGCTCCAGGAAGGGAGGAACAGCAGCTGCACCGCCAAGAGCGTGAC
AGAAAATTCTTGAGGAGGAACAACAGCTGCGCCGCCAAGAGCGTGACAGAAAATTCCGCGAACAGGAACCTGCGC
AGTCAGGAACCAGAGAGAAAATTCTCGAGGAGGAACAGCAGCTGCACCGCCAGCAACGGCAGAGAAAATTCTCTC
CAGGAGGAACAGCAGCTGCGCCGCCAGGAGCGCGGGCAACAGCGGCGTCAGGACCGTGACAGAAAATTCCGCGAG

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FIGURE 338B

GAGGAACAGCTGCGCCAGGAGAGGGAGGAACAGCAGCTGAGCCGCCAAGAGCGTGACAGAAAATTCCGTTTAGAG
GAACAGAAAGTGCGCCGCCAGGAACAAGAGAGAAAATTCATGGAGGACGAACAGCAGCTGCGCCGCCAGGAGGGC
CAACAACAGCTGCGCCAGGAGCGCGACAGAAAATTCGCGAAGACGAACAGCTGCTCCAGGAAAGGGAAGAACAG
CAGCTGCACCGCCAAGAGCGTGACAGAAAATTCCTCGAGGAGGAACCGCAGCTGCGCCGCCAGGAGCGCGAACAA
CAGCTGCGTACGACCGCGACAGAAAATTCGCTGAAGAGGAACAGCTGCTCCAGGAAGGGGAGGAACAGCAGCTG
CGCCGCCAAGAGCGTGACAGAAAATTCGCGAAGAGGAACAGCAGCTCCGCCGTCAGGAACGAGAGAGAAAATTC
CTCCAGGAGGAACAGCAGCTGCGCCGCCAGGAACCTGGAGAGAAAATTCGCTGAGGAGGAACAGCTGCGCCAAGAA
ACGGAGCAAGAGCAGCTGCGCCGCCAAGAACGCTACAGAAAATTCCTAGAGGAAGAGCAGCTCCGTCCGGAAAGG
GAAGAACAGCAGCTGCGCCGCCAGGAGCGCGACAGAAAATTCGCGAGGAGGAACAGCTCCGCCAGGAGAGGGAG
GAACAGCAGCTGCGCAGCCAAGAGTCTGACAGAAAATTCGCGAGGAGGAACAGCTACGCCAGGAGAGGGAAGAA
CAGCAGCTGCGCCCCAACAGCGTGACGGAAGTATCGCTGGGAAGAAGAGCAGCTCCAACCTTGAGGAACAAGAG
CAGAGGCTGCGGCAGGAGCGAGACCGGCAGTACCGGGCGGAGGAGCAGTTTGCCACGCAGGAGAAGAGTCGTCTGT
GAGGAACAAGAACTATGGCAAGAAGAGGAGCAGAAACGTCGCCAGGAACGGGAAAGGAAATTACGGGAAGAACAC
ATCCGCCGCCAGCAGAAGGAGGAACAGAGGCACCGCCAAGTCGGGGAGATAAAATCCCAAGAAGGGAAGGGCCAT
GGGCGGCTTCTGGAGCCCGGCACTCATCAGTTTGCCAGTGTCCTCCAGTCCAGCCCTCTCTATGAGTACATC
CAAGAGCAGAGATCTCAATACCGCCCTTAA

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FIGURE 339

MSPLLRICDITEIFNQYVSHDCDGAALTKKDLKNLLEREFGAVLRRPHDPKTVDLILELLDLDNSNGRVDFNEFL
LFIKVAQACYALGQATGLDEEKRARCDGKESLLQDRRQEEDQRRFEPDRDQLEEEFGQRRRQKRQEERELAE
GEEQSEKQERLEQRDRQRDEELWRQEQEWQEREERRAEELQSCCKGHETEEFPDEEQLRRELLELRKRGREE
KQQRRERQDRVFQEEEEKWRKRETVLRKEEEKRERWLKLEEEERREQERREQQLRREQEERREQLRKQEEE
ERLQQLRSEQQLRREQEERREQLLKREEEKRLQEERREQLRKREQEERRDQLLKREEERRQQLRKREQEERLEQ
RLKREEVERLEQEERREQLRKREEPFEEERRQQLLKSEEQEERRQQLRREQERREQLKREEEEEERLEQLRKRE
HEEERREQELAEELQEQARERIKSRIPKWQWQLESEADARQSKVYSRPRKQEGQRRRQEQUEKRRRRESELQWQE
EERAHRQQQEEEQRRDFTWQWQAEKSERGRQLSARPPLEQRERQLRAEERQQREQRFLEPEEEKEQRRRQRR
EREKELQFLEEEELQRRRERAQQLQEEEDGLQEDQERRRSQEQRRDQKWRWQLEEEKRRRHTLYAKPALQEQLR
KEQQLLQEEELQREEREKRRRQEERQYREEEQQLQEEELQLEEREKRRRQERERQYRKDKKLQKKEEQLLG
EPEKRRRQERKKYREEELQQEEELQLEEREKRRRQEWERQYRKDELQEEELQLEEREKRRRQERERQY
REEELQQEEELQLEEREETRRRQELERQYRKEELQQEEELQLEEREKRRRQERERQCRENEQFRQLEDSQLR
DRQSQDLQHLLEGEQERDREQERRRWQQRDRHFPEEQLEREEQKEAKRRDRKSQEEKQLLEEREKRRRQET
DRKFREELQLEEREQPLRRQERDRKFREELRHQEQGRKFLEEQQLRRQERERKFLKEEQQLRCQEREQQLR
QDRDRKFREELQLSRQERDRKFREELQVRRQERERKFLLEEQQLRQERHRKFREELQLEEREQQLHRQERD
RKFLLEEQQLRRQERDRKFREELRSQEPERKFLEEQQLHRQQRQKFLQEEQQLRRQERGQQRQDRDRKFRE
EEQLRQEREQQLSRQERDRKFRLEEQKVRREQERKFMEDQQLRRQEGQQQLRQERDRKFREDEQLQEREQ
QLHRQERDRKFLEELPQLRRQEREQQLRHDRDRKFREELQLEEGEQQLRRQERDRKFREELQLRQERERKF
LQEEQQLRRQELERKFREELQLEETEQLRRQERYRKILEEQQLRPEREEQQLRRQERDRKFREELQLRQERE
EQQLRSQESDRKFREELQLRQEREQQLRPQORDGKYRWEEELQLEEQQLRRQERDRQYRAEEQFATQEKSR
EEQELWQEEEQKRRQERERKLREEHIRRQKKEEQRRHQVGEIKSQEGKGHGRLLPEGTHQFASVPVRSPLYEYI
QEQRSQYRP

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FIGURE 340

GGGCAAGGCTGGGCCGGGAAGGGCGTGGGTTGAGGAGAGGCTCCAGACCCGCACGCCGCGCGCACAGAGCTCTCA
GCGCCGCTCCCAGCCACAGCCTCCCGCGCCTCGCTCAGCTCCAACATGGCAAAAATCTCCAGCCCTACAGAGACT
GAGCGGTGCATCGAGTCCCTGATTGCTGTCTTCCAGAAGTATGCTGGAAAGGATGGTTATAACTACACTCTCTCC
AAGACAGAGTTCCTAAGCTTCATGAATACAGAACTAGCTGCCTTCACAAAGAACCAGAAGGACCCTGGTGTCTT
GACCGCATGATGAAGAACTGGACACCAACAGTGATGGTCAGCTAGATTTCTCAGAATTTCTTAATCTGATTGGT
GGCCTAGCTATGGCTTGCCATGACTCCTTCCTCAAGGCTGTCCCTTCCCAGAAGCGGACCTGAGGACCCCTTGGC
CCTGGCCTTCAAACCCACCCCTTTCCTTCCAGCCTTCTGTCAATCATCTCCACAGCCCACCCATCCCTGAGCA
CACTAACCACCTCATGCAGGCCCCACCTGCCAATAGTAATAAAGCAATGTCACTTTTTTAAACATGAAA

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FIGURE 341

MAKISSPTETERCIESLIAVFQKYAGKDGYNITLSKTEFLSFMNTELAFTKNQKDPGVLDMMKKLDTNSDGQL
DFSEFLNLIGGLAMACHDSFLKAVPSQKRT

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FIGURE 342

CCGGTGGGGCGGGGAAGCCCGGCTTCTGGGGAGGTGCCGCCCTCCACTGGCGCAGGCCGCCGAGACCCCCAGACG
GACCTCCTAGGGCTAATCTGATAGTGCTCTGAGGTCGATAGGACTCCACGTGCCACTCCCTGCAGGGTCATCCA
GCAAGTAATTCCTAGACCCGTAGGTGGCCGCAGAGCCGGTTACCTCTGGTTCTGCGCCAGCGTGCCCCACCCGCA
GGACGGCCGGGTCTTTGATTTGTACACTTTCTAAAACCAAACCCGAGAGGAAGGGCAGGCTCAGGGTGGGGATG
CCCTGAAATATTCGAGAGCAGGACCGTTTCTACTGAAGAGAAGTTTACAAGAACGCTCTGTCTGGGGCGGGCGAG
GCCTCTGCGAGGCCGGGTCCGGGAGCGAGGGCAGGGCGTGGGCCGCGCGCCCGGGGTGCGGGGAGTCGGGGGCAGG
AAGAGGGGGAGGAGACAGGGCTGGGGGAGCGCCCTGCCGAGCGCCCGCCAGGCTCCTCCCGCTCCCGCGCCGCCT
CCCTCTACCCACCCGCCGCACGTACTAAGGAAGGCGCACAGCCCGCCGCGCTCGCCTCTCCGCCCCGCGTCCAGC
TCGCCCAGCTCGCCCAGCGTCCGCCGCGCCTCGGCCAAGGCTTCAACGGACCACACCAAAATGCCATCTCAAAATG
GAACACGCCATGGAAACCATGATGTTTACATTTACAAAATTCGCTGGGGATAAAGGCTACTTAACAAAGGAGGAC
CTGAGAGTACTCATGAAAAGGAGTTCCCTGGATTTTGGAAAATCAAAAAGACCCTCTGGCTGTGGACAAAATA
ATGAAGGACCTGGACCAGTGTAGAGATGGCAAAGTGGGCTTCCAGAGCTTCTTTCCCTAATTGCGGGCCTCACC
ATTGCATGCAATGACTATTTTGTAGTACACATGAAGCAGAAGGGAAAGAAGTAGGCAGAAATGAGCAGTTTCGCTC
CTCCCTGATAAGAGTTGTCCCAAAGGGTCGCTTAAGGAATCTGCCCCACAGCTTCCCCCATAGAAGGATTTTCATG
AGCAGATCAGGACACTTAGCAAATGTAAAATAAAATCTAACTCTCATTGACAAGCAGAGAAAGAAAAGTTAAA
TACCAGATAAGCTTTTGATTTTGTATTGTTGCATCCCTTGCCCTCAATAAATAAAGTTCTTTTTTAGTTCC

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FIGURE 343

MPSQMEHAMETMMFTFHKFAGDKGYLTKEDLRVLMEKEFPGFLENQKDPLAVDKIMKDLDQCRDGKVGFSFFSL
IAGLTIACNDYFVVHMKQKGKK

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FIGURE 344

CGGCTGAAGCGCCGCCGGGGCTCACTGTGGTGGTGTGAGTGGGAGGCGGCGCGCTGGTGGCTGCAGCTGGG
GTGAGGCGCGAGGCGGCGCACTCGACGGCTGACTGGAGCAGCGGTAAAGGCGAGGATGGAGACCGAAGGATATAA
GTCAAAGAGTACAGCAGAAAAATGTCTACTGAACGGACTTCTTGGACAAGCCTGTCCACCATTTCAGAAAAATAGCCC
TGGGCCCTTGGGATCCAGCCAGTGCACAGTTGCCTATATCCTATACCGCAGGTATAGGGAAAGCAGAGAAGAGC
GGCTGACATTTGTTGGGGAAGATGACATTGAGATAGAGATGCGGGTTCCCCAGGAGGCTGTGAAACTCATCATTG
GCCGGCAAGGAGCCAATATTAAACAGCTGCGGAAACAGACAGGTGCTCGGATTGATGTGGACACAGAGGATGTAG
GCGATGAGCGAGTGTCTTATCAGTGGTTTTCTGTTCAGGTGTGCAAGGCCAAAGCAGCAATCCATCAGATCC
TGACAGAGAATACCCAGTGTCTGAGCAGCTTTCAGTTCCCCAGAGATCTGTGGGCAGAATCATAGGGAGAGGGCG
GCGAGACAATTCGTTCTATCTGTAAAGGCATCTGGAGCCAAAATTACCTGTGACAAAGAATCAGAAGGGACATTAC
TACTATCAAGACTTATAAAAAATCTCAGGAACACAGAAGGAAGTGGCAGCAGCCAAGCATTGTGATACTGGAGAAAG
TTTCAGAAGATGAAGAACTTCGGAAGAGAATTGCTCATTCTGCAGAAACCAGGGTCCCACGCAAACAGCCAATCA
GTGTGAGAAGAGAAGACATGACAGAGCCAGGTGGAGCTGGAGAGCCAGCATTATGGAAAAACACCAGTTCTAGCA
TGGAGCCGACTGCACCCCTGGTGAATCCTCCACCCAAAGGAGGAGGCGACATGGCTGTGGTAGTGTCAAAGGAAG
GTTCTCTGGGAGAAACCTAGTGATGACAGCTTTCAGAAGTCTGAAGCCCAGGCCATCCCAGAGATGCCCCATGTTTG
AAATCCCCAGTCTGACTTCAGTTTTTCATGCTGATGAGTACCTAGAAGTCTACGTTTCTGCTTCTGAGCACCCCTA
ACCATTCTGGATCCAGATCGTTGGCTCCCGCAGCCTGCAATTGGATAAGCTTGTCAATGAGATGACCCAGCACT
ATGAGAATAGTGTGCCTGAAGACTTGACTGTGCATGTAGGAGACATTGTAGCAGCACCTTTACCTACAAATGGTT
CCTGGTATCGAGCCCGGGTCTCGGCACCTTGGAAGATGGGAACCTTGGACCTCTATTTTGTGACTTTGGAGATA
ATGGAGATTGCCCCTGAAGGACCTCAGGGCTCTCAGGAGTGACTTCCTAAGCCTTCCATTTCAAGCAATAGAAT
GTAGTCTGGCACGGATTGCTCCCTCAGGTGACCAGTGGGAAGAGGAAGCTTTGGATGAGTTTGATAGACTCACTC
ATTGTGCTGACTGGAAGCCTCTGGTAGCCAAGATCTCTAGCTATGTCCAGACTGGGATCTCAACTTGGCCAAAGA
TCTACTTATATGATACTAGCAATGGGAAGAACTTGATATTGGGCTAGAATTAGTACACAAAGGATACGCAATTG
AGCTTCCTGAAGACATAGAAGAAAAACAGAGCTGTCCAGACATGTTGAAGGACATGGCCACAGAAACAGATGCCT
CTCTCAGCACGTTGCTCACTGAGACAAAAAGAGCTCTGGAGAGATAACACATACCCTGTCCTGCCTCAGCTTAT
CAGAAGCTGCTTCCATGTCTGGTGATGATAACCTTGAAGATGACTACTTACTCGGAAGTCTGGGCTTCAGTTTGC
TCAGCCATCTGCTTTGCTGTATGTTGCCTGCAATGAACCTCGCTGAAGCATGCTCAGCCCTGGAAGTGGTGCTACC
AGAGTTCGGTAGGGAACCTTTACTCTTTAGAGGTTCCTTGATATAAAATCATTTCATAAGACTTCCTACCCCTGAAA
ATGAGTAATGTCTCATTCTTACCTGCAGTTTGTACTATGTATAAAAGTCTTTTTCTTTAATATGCCTTTAAGTC
TTACCTGTTTACAGCCATTCTGATGGGTTCTTTGTGCTTCTGTTAGTATAACCCAGTACTTTTCTGCTGCCTG
GAATGCCCTCTTCTATGTTACCTATTCTGTCCGTTGAGATGCCCCAACTTGGGCCAAAGCCAAGAGATCTATGTG
CCTTCTCTGGTTTTCTCCACATCTATAGCACCTCAACTGAAATATATGGATAAAAAACAGCCTAACAAAAA
AAAAA

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FIGURE 345

MSTERTSWTSLSTIQKIALGLGIPASATVAYILYRRYRESREERLTFVGEDDIEIEMRVPQEAVKLIIGRQGANI
KQLRKQTGARIDVDTEDVGDERVLLISGFPVQVCKAKAAIHQILTENTPVSEQLSVPQRSVGRIIGRGGETIRSI
CKASGAKITCDKESEGTLLLSRLIKISGTQKEVAAAKHLILEKVSEDEELRKRIAHSAETRVPRKQPISVRREDM
TEPGGAGEPALWKNTSSSMEPTAPLVTPPPKGGDMAVVVSKEGSWEKPSDDSFQKSEAQAIPEMPMFEIPSPDF
SFHADEYLEVYVSASEHPNHFWIQIVGSRSLQDLKLVNEMTQHYENSVPEDLTVHVGDIVAAPLPTNGSWYRARV
LGTLENGNLDLYFVDFGDNDCPLKDLRALRSDFLSLPPQAIECSLARIAPSGDQWEEELDEFDRLTHCADWKP
LVAKISSYVQTGISTWPKIYLYDTSNGKKLDIGLELVHKGYAIELPEDIEENRAVPDMLKDMATETDASLSTLLT
ETKKSSGEITHLTLCLSLSEAASMSGDDNLEDDYLLGSLGFSLLSHLLCCMLPAMNSLKHAQPWNWCYQSSVGNL
YSLEVP

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FIGURE 346

TTTTTCTGCTACCGTGACTAAGATGGAAGCGTTTTTGGGGTCGCGGTCCGGACTTTGGGCGGGGGGTCCGGCCC
CAGGACAGTTTTACCGCATTCCGTCCACTCCCGATTCTTCATGGATCCGGCGTCTGCACTTTACAGAGGTCCAA
TCACGCGGACCCAGAACCCCATGGTGACCGGGACCTCAGTCCCTCGGCGTTAAGTTCGAGGGCGGAGTGGTGATTG
CCGCAGACATGCTGGGATCCTACGGCTCCTTGGCTCGTTTCCGCAACATCTCTCGCATTATGCGAGTCAACAACA
GTACCATGCTGGGTGCCTCTGGCGACTACGCTGATTTCCAGTATTTGAAGCAAGTTCTCGGCCAGATGGTGATTG
ATGAGGAGCTTCTGGGAGATGGACACAGCTATAGTCCTAGAGCTATTCATTTCATGGCTGACCAGGGCCATGTACA
GCCGGCGCTCGAAGATGAACCCCTTGTGGAACACCATGGTCATCGGAGGCTATGCTGATGGAGAGAGCTTCCTCG
GTTATGTGGACATGCTTGGTGTAGCCTATGAAGCCCCCTTCGCTGGCCACTGGTTATGGTGCATACTTGGCTCAGC
CTCTGCTGCGAGAAGTTCTGGAGAAGCAGCCAGTGCTAAGCCAGACCGAGGCCCGCGACTTAGTAGAACGCTGCA
TGCGAGTGCTGTACTACCGAGATGCCCGTTCTTACAACCGGTTTCAAACCGCCACTGTCACCGAAAAAGGTGTTG
AAATAGAGGGACCATTGTCTACAGAGACCAACTGGGATATTGCCACATGATCAGTGGCTTTGAATGAAATACAG
ATGCATTATCCAGAACTGAAGTTGCCCTACTTTTAACCTTTGAACTTGGCTAGTTCAAAGATAGACTCTTCTTTTG
TAAAGTAAATAAATTCTTCAAATG

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FIGURE 347

MEAF LGS R SGLWAGGPAPGQFYRIPSTPDSFMDPASALYRGPITRTQNPMVTGTSVLGVKFEGGVVIAADMLGSY
GSLARFRNISRIMRVNNSTMLGASGDYADFQYLKQVLGQMVIDEELLGDGHSYSPRAIHSWLTRAMYSRRSKMNP
LWNTMVIGGYADGESFLGYVDM LGVAYEAPSLATGYGAYLAQPLLREVLEKQPVLSQTEARDLVERCMRVLYYRD
ARSYNRFQTATVTEKGVEIEGPLSTETNWDIAHMISGFE

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FIGURE 348

AATTGGAGGAGTTGTTGTTAGGCCGTCCCGGAGACCCGGTCGGGAGGGAGGAAGGTGGCAAGATATGGTGTGGAAA
GCACTATGGTGTGTGTGGACAACAGTGAGTATATGCGGAATGGAGACTTCTTACCCACCAGGCTGCAGGCCCAGC
AGGATGCTGTCAACATAGTTTGTCAATCAAAGACCCGCAGCAACCCTGAGAACAACGTGGGCCTTATCACACTGG
CTAATGACTGTGAAGTGCTGACCACACTCACCCAGACACTGGCCGTATCCTGTCCAAGCTACATACTGTCCAAC
CCAAGGGCAAGATCACCTTCTGCACGGGCATCCGCGTGGCCCATCTGGCTCTGAAGCACCGACAAGGCAAGAATC
ACAAGATGCGCATCATTGCCTTTGTGGGAAGCCCAGTGGAGGACAATGAGAAGGATCTGGTGAACTGGCTAAAC
GCCTCAAGAAGGAGAAAAGTAAATGTTGACATTATCAATTTTGGGGAAGAGGAGGTGAACACAGAAAAGCTGACAG
CCTTTGTAAACACGTTGAATGGCAAAGATGGAACCGGTTCTCATCTGGTGACAGTGCCTCCTGGGCCCAGTTTGG
CTGATGCTCTCATCAGTTCTCCGATTTTGGCTGGTGAAGGTGGTGCCATGCTGGGTCTTGGTGCCAGTGACTTTG
AATTGGAGTAGATCCAGTGCTGATCCTGAGCTGGCCTTGGCCCTTCGTGTATCTATGGAAGAGCAGCGGCAGC
GGCAGGAGGAGGAGGCCCGGCGGGCAGCTGCAGCTTCTGCTGCTGAGGCCGGGATTGCTACGACTGGGACTGAAG
ACTCAGACGATGCCCTGCTGAAGATGACCATCAGCCAGCAAGAGTTTGGCCGCACTGGGCTTCTGACCTAAGCA
GTATGACTGAGGAAGAGCAGATTGCTTATGCCATGCAGATGTCCCTGCAGGGAGCAGAGTTTGGCCAGGCGGAAT
CAGCAGACATTGATGCCAGCTCAGCTATGGACACATCTGAGCCAGCCAAGGAGGAGGATGATTACGACGTGATGC
AGGACCCCGAGTTCCCTCAGAGTGTCTTAGAGAACCTCCAGGTGTGGATCCCAACAATGAAGCCATTGAAATG
CTATGGGCTCCCTGGCCTCCCAGGCCACCAAGGACGGCAAGAAGGACAAGAAGGAGGAAGACAAGAAGTAGAGACT
GGAGGGAAAGGGTAGCTGAGTCTGCTTAGGGGACTGCATGGGAAGCACGGAATATAGGGTTAGATGTGTGTTATC
TGTAACCATTACAGCCTAAATAAAGCTTGGCAACTTTT

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FIGURE 349

MVLESTMVCVDNSEYMRNGDFLPTRLQAQQDAVNIVCHSKTRSNPENNVGLITLANDCEVLTTLTPTDGRILSKL
HTVQPKGKITFCTGIRVAHLALKHRQGKNHKMRIIAFVGSPVEDNEKDLVKLAKRLKKEKVNVDIINFGEEEVNT
EKLTAFVNTLNGKDGTSGLVTVPPGPSLADALISSPILAGEGGAMLGLGASDFEFGVDPSADPELALALRVSM
EQRQRQEEEEARRAAAASAAEAGIATTGTEDSDDALLKMTISQQEFGRITGLPDLSSMTEEEQIAYAMQMSLQGA
EF
GQAESADIDASSAMDTSEPAKEEDDYDVMQDPEFLQSVLENLPGVDPNNEAIRNAMGSLASQATKDGKKDKKEED
KK

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FIGURE 350

CTGGTGAGGGGCTGCAGGTGGCGGCGCAGTCTCGGTAGGCGGTATGAGTTTGGCTGGGGGCCGGGCACCCCGGAA
GACCGCTGGGAACCGGCTTTCTGGGCTTTTGGAGGCAGAGGAGGAAGATGAGTTCTACCAGACGACTTATGGGGG
TTTCACAGAGGAATCCGGAGATGATGAGTATCAAGGGGACCAGTCAGACACAGAGGACGAAGTGGACTCTGACTT
TGACATTGATGAAGGGGATGAACCATCCAGTGATGGAGAAGCAGAAGAGCCAAGAAGGAAGCGCCGAGTAGTCAC
CAAGGCCCTATAAGGAACCTCTCAAGAGCTTAAGGCCTCGAAAGGTCAACACCCCGGCTGGTAGCTCTCAGAAGGC
GCGAGAAGAGAAGGCACCTACTGCCATTAGAACTACAAGATGACGGCTCTGACAGTCGGAAGTCTATGCGTCAGTC
TACAGCTGAGCATACACGACAAACGTTCCCTTCGGGTACAGGAGAGGCAGGGCCAGTCAAGACGGCGAAAGGGGCC
CCACTGTGAGCGGCCACTAACCAGGAGGAAC TGCTCCGGGAGGCCAAGATCACAGAAGAGCTTAATTTACGGTC
ACTGGAGACATATGAGCGGCTCGAGGCTGATAAAAAGAAGCAGGTTTCATAAGAAGCGGAAGTGCCCCGGGCCC
AATCACCTATCATTGAGTACAGTGCCACTTGTGGGGAGCCAGGCCCCAAGGAAGAGAACGTTGACATAGAAGG
ACTTGATCCTGCTCCCTCGGTGTCTGCATTGACTCCTCATGCTGGGACTGGACCCGTCAACCCCGCTGCTCGCTG
CTCACGTACCTTCATCACTTTTAGTGATGATGCAACTTTTCGAGGAATGGTTCCCCCAAGGGCGGGCCCCAAAAGT
CCCTGTTCTGTGAGGTCTGTCCAGTGACCCATCGTCCAGCCCTATACCGGGACCCGTGTACAGACATACCCATATGC
CACTGCTCGAGCCTTCAAGATCATTGCTGAGGCTTACAAGAAGTACATTACTGCCCATGGACTGCCGCCCCACTGC
CTCAGCCCTGGGCCCCGGCCCGCCACCTCCTGAGCCCTCCCTGGCTCTGGGCCCCGAGCCTTGCGCCAGAAAAT
TGTCATTAAATGAAGAGATGTCTAGTCCTCAGAACTTCTTTCTGCCCTGATTGGGGCTCTTGCTGTTCCGTTT
CTTCTCCCTGCTTCTCCCTTTTGTCACTCTGATCTTTGCCTAATCTGTTTCTTTTCCCTTTTCCCTAGTTCTT
ACAGGTTTCGTTGTGTTTTTTAATCTAATAAAATAGAAAGATCCCTTTT

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FIGURE 351

MSLAGGRAPRKTAGNRLSGLLEAEEDEFYQTTYGGFTEESGDDEYQGDQSDTEDEVDSDFDIDEGDEPSSDGEA
EEPRRKRRVVTKAYKEPLKSLRPRKVNTAGSSQKAREEKALLPLELQDDGSDSRKSMRQSTAEHTRQTFLRVQE
RQGQSRRRKGPHCERPLTQEELLREAKITEELNLRSLTYERLEADKKKQVHKRKCPIITYHSVTVPLVGEP
GPKEENVDIIEGLDPAPSVSALTPHAGTGPNPPARCSRTFITFSDDATFEWFPPQGRPPKVPVREVCVTHRPAL
YRDPVTDIPYATARAFAKIIREAYKKYITAHGLPPTASALGPGPPPPEPLPGSGPRALRQKIVIK

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FIGURE 352

CCTGGCTTTGTGCATTGGGTTCTGGTGCCTGATGGACACATTTTCCAGTTACAGGCCGAATGGTCTCAATGTAG
CTGAAGAACTGTGCCCCTGATCAGTATTACGTATTGCAAATGCAGGAGGTGGCTGTATCTGACAGACCCAGGCC
TTCCAGCTCCGACAGATCCAGTTCTGGGATGGGCATCCTCCAGAAAAGAAAGGAAGTGTACTGGCTACTCACAGG
GTCCCTCATAGCTTCTTAGAAAAGAAACCCTTGTTCAGTCTTCATGCTACAGCAACTTCTTTGTGGCCCATGGCCT
TTCCTTGCTTAGATACTCCACATACTGTTCTCCCCGAGGGGCGGCGGCCCTTGAGGGGCTGCAGAGGCACCCTCC
CACGTCCCGCGCAGTGCAGTGCCTCCGCAGTCCAGAGGGGAGCAGTGCGCCGGGCTCCGAGCCGGACGGGTTTCG
TAATCGCGTCGCCGCCGCTTCCGCCCTCAGCCGGCCCCACCTCTGCCGGCTCGTACTCGGCTCCCCACCTCGCC
GCAGAGCTAGCCCCGGAAGCCACACTGGCGGCCACGGAGCAGAGTCCCTCACCCCCACCAGCTGTAGCTGAACG
TCTGGATGGTGGAGAAGAGCAGGTGAGGCCGTGCAGTTGGTCCCCTGGCCCGCTGCCGCGCCGGCCGGGCCAGG
CGGAGACACACCGGATGCCGGGTGTGGGGGAGGCGGGTGTCTGGGCTGCAGAGATGCTGGGGTGGTGGGAAAGG
GGTGCGCCGCCCGGGGTGGCCGTAGTCATCCACGCTCCTGGGGTGCAGGCTGAGGCCGTGAAGAGTAGAAGGA
AAAGAAGGAAGTGAATGTTGGGGGAGGTGGGAGGGAGAGGGTCCGAAAGATTCCAGAGAGGTCCAGTCCGGT
TAAGGGTTGAGAACAGCAGAGAAGTCTAGGTAGAGTTGTGTAGTGGGGGAGACAGATACGGAATCTGTGTGAT
TGAATATATTTGGGGAGGGGAGGCTTAGGGCCTAGCCCTCTTTCCTCTTAAGCCCCAGAAGACCTTTCCTGGGG
AAGGGAAGGTTGGTGTGGGCTGTCACTTGGCTGAAATATGGAGTCCACACCGCTTCTCCAGAGTCCCTCAGCA
GCCCTCCATGTCTCGGGTCTCCACACAGGGACCAGCTGCTGCCCGGGCTTCTAGCCAGAATTGCCATGCCAT
TCTCTCGATTCTTTCTTCTCTCCAGCTGCTTCATGTGAGGGCTGTGTCAGGCCGCGGGTTGGAGGCCTTAGGGCC
AGAGGCGGTGGGACCGGGAGAACCGGTTTGGGGCCCGAACAGGACCAGAGAAGTAGCCTGTACATCCTTCCTCCC
TGGCACCTCTTTCCCATCCCTTCTGCTCACCTCCCAACAGCTCTGAGACCCTCAAGTCCCTAGTATGATCTTGGTG
GGGGCGGGGGTGGCTTTCCCGGTTCCATATTTCACTCTTGCCATTGGAAGTCAAGAGAGGTGAGTTCTGAGCA
CCACTTGGCTCTCAGGACGTGGCCTTATGAGGTCTAATCCTCATCCCTCCTGTTGTTTCTCAGCCCCCTTCCTTA
TTCAGTGTGGGTTGGATTCCGGTGGCTCTTCCGCTGGGCTGACCAGCTCAGGACTTCATTTTCTCAACCCA
CTCTCTTCTGGCTGCTTTAAGAAGAGTGGCCGCCAGTGGCTCTTACTTCTTTCTGGCTTTGTTCCCATCCCC
CACTGCCCTGCGCTACCATCACATTCACCCTGACCTGTCTTCTTCACTCTGACCCACCCTCAAGTTTCAGAG
ACCCTAATGTCTAGGGAATGGAATTTCTGGTCACTTCTCGTCATCATTGGTCATTTTCATGCCAAGTCCACAC
ACACGCTTTCCCTCCACCCAGCTCTGGTCAGGTCCCTGGAAAAGAAACAGAAATGGCCTTGTTCTCTCCACTGCC
CCTTTCCCTCTCTCTTCTCTCCCCCTCTCTTCTCTTCCCTCCAGCACTATCCACCTCTGTCCCTCAGCTTG
AGCAGAGTGGGGGATGTTGAGGGAGAGTCCAGTCACAGTACAGCCTGCCTGCTGGTGTGGGGGTTTCTCTAAT
TCTTCATTTTCCCCAACCTTACCACCTGCCACCACCACCATCAGGACAAACCCTATGACTGACTCACTGACGT
CCCACTGACCACAGCTCCCCTCTCTGGACAGCGTGTTTAGCTTCCGCTCCTTCTGGTTACTCCTCCCTTCCAGT
GGTGAGAAGAGAAGAGAAAGCCAGCCTCCTGGGTTCTCCCCTCCCCTAGAAGCTACATTTGAGTGTTTGTGTGA
TCTCATCTCAAGGCTGTT

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FIGURE 353

AGTCAGCACGGGGGTGCTGGAAGAGATCGGGAATAATAGCGCAGACCAATGAGCCTAGGGAGATGCTTTCATCGT
CTCTCCTTCCCTCAAGTGTTCTGGAACCTATCATTGGAATTAGCCGAGTCAGGCAGGAGGGGGCGGGGAATCCTT
CCGCCCTTCTTAGGAGGGGCTGCATTGCAGGGGGAGAGTGAAGTACAGACTCAGTCACTGAAGAGGGAAAAGGA
GTGAGAAGACAAAGCCGTCAAAGCCCCAACAGCTTTGTATTTCTCCAGCCCGGCGCAGACCCCGGAGCTCCCGAG
GCACTCCCTCCATCTTTGGAACACGCCAGTAATTGATTGATAACAGGAAGCTATGAGGGACCCTGTGAGTAGCCA
GTACAGTTCCTTTCTTTCTGGAGGATGCCCATCCCAGAACTGGATCTGTCTGGAGCTGGAAGGCCTGGGTCTGTC
AGATACAGCCACCTACAAGGTCAAAGACAGCAGCGTTGGCAAAATGATCGGGCAAGCAACTGCAGCAGACCAGGA
GAAAAACCCTGAAGGTGATGGCCTCCTTGAGTACAGCACCTTCAACTTCTGGAGAGCTCCCATTGCCAGCATCCA
CTCCTTCGAACTGGACTTGCTCTAAGGCCAAGACTTCTCTCTCCCATCACCTTGCCCTCATTGTCTTCCCTCTCA
AGCCCCCTTCTTTCCACTCCTTTCCCATTTTAATCTTGTCTCTCCCTACTGTGTTGGTGGTGCTGATGAATCTG
CCAGAGTTGAGTTCTATGTATTTATTTATCTATCTGTCTACTCCATTTCTCTCAAAGCCCTCAAGTCACAAAGT
AAATGGTTCAAGCAATGGAGTACTGGGTACAGGGATTCTCCTTTCCCCCCCCAAATATTAAGTCCAGAACTAG
GCCTGACTGGGGACACCTGAGAGTAGTATAGTAGTGCAAAATGGAAGACTGATTTTGGACTCTATTATAATCAGC
TTCAGAGATTCCTTAAACCTTCCTAATTTCTGCTCCAGGGCAGTAAACACAAATATTTCTTCAAGGGGTGATGA
AAACCTCGGAAGTTTTAATTTGAGGTTATCTGCTACGAAACAGTATTTCTAAAAGGCTAAAGTGATAAGTCTCTT
GCTTTTTTTTGATCCTGCTCTTATATTCTTTTTTTTCTCAGAGAAATCAGGAGGGTAGTTAGAGGTATAAAACA
GGAGGAAATATTATGGAATGAAATAGGGAAATAATTGAATCATTTTAGAAGTAGCTAATTTCTTTTCTCAA
AAGAGTGTCCCTTCTTACACCTACTCACTTTACAACCTTGCTCCTAACTGTGGGTGAAAACCTCTAGCTAAAGA
AAGTTATCAAATCTTAACATGCATTCTACTATTATGATAGTTTTTAAGGTTTCAATTCAATCTTCTGAACGGCA
TAAGTCCTATTTTAGCCTTACCTCCTGCATTGCAATACGTAATACTGATCAGTGGGCACAGTTCTTCAGCTACA
TTGAGACCCTGAAATGAACAATTATTTCTGACTCGACATCTTGTCCTCCCAATCCTTCCAAAAATATTGATGGTGA
TTTGTGCTACCATTACTCGTTTATTTAATAAAGACATTCAATCCC

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FIGURE 354

GGGGGCGGGGCGACGCCGACTCCGGAGCGCCCGCTTACGCAGTTCCTCCCGGGGTGCGAGGCCGATTGCGCGTG
TGCGGGGTTTCGAGTCCCGCCTCCTGACTCTGGCCTCTAGTCCCTGAGTCCCGGGCGGGGCTGCATTGCTCGGGGAA
ACCTCTCCTCGACCAGGGGCGACCTTACTCGACCAGGGGCGACGGCGTACTTTGGGGCTTCATCATGGAGGACTAC
CTGCAGGGTTGTGAGCTGCTCTGCGAGGAGTCCCGACCTCTACATGTTGTGCTGGGAAATGAAGCCTGTGATTTG
GACTCCACAGTGTCTGCTCTTGCCCTGGCTTTTTTACCTAGCAAAGACAACCTGAGGCTGAGGAAGTCTTTGTGCCA
GTTTTAAATATAAAACGTTCTGAACTACCTCTGCGAGGTGACATTGTCTTCTTCTTCAGAAGGTTTCATATTCCA
GAGAGTATCTTGATTTTTCGGGATGAGATTGACCTCCATGCATTATACCAGGCTGGCCAACCTCACCTCATCCTT
GTCGACCATCATATCTTATCCAAAAGTGACACAGCCCTAGAGGAGGCAGTAGCAGAGGTGCTAGACCATCGACCC
ATCGAGCCGAAACACTGCCCTCCCTGCCATGTTTCAGTTGAGCTGGTGGGGTCTGTGCTACCTGGTGACCGAG
AGAATCCTGCAGGGGCGACAGAGATCTTGGACAGGCAAACTGCAGCCCTTCTGCATGGAACCATCATCCTGGAC
TGTGTCAACATGGACCTTAAAATTGGAAAGGCAACCCCAAAGGACAGCAAATATGTGGAGAACTAGAGGCCCTT
TCCCAGACCTACCAAGAGAAATGATATATTTGATTCCCTACAAAAGGCAAAGTTTGATGTATCAGGACTGACC
ACTGAGCAGATGTGAGAAAAGACCAGAAGACTATCTATAGACAAGGCGTCAAGGTGGCCATTAGTGCAATATAT
ATGGATTTGGAGGCCTTTCTGCGAGGTCTAACCTCCTTGCGAGATCTCCATGCTTTCTGCCAGGCTCACAGCTAT
GATGTCTGGTTGCCATGACTATCTTTTCAACACTCACAATGAGCCAGTGCAGGAGTTGGCTATTTTCTGTCCC
CATGTGGCACTCCAAACAACGATCTGTGAAGTCTTGGACGCTCCCACTCTCCACCCCTGAAGCTGACCCCTGCC
TCAAGTACCCACCCTAACCTCCATGCCTATCTTCAAGGCAACACCCAGGTCTCTCGAAAGAACTTCTGCCCTG
CTCCAGGAAGCCCTGTGAGCATATTTTACTCCATGAAGATCCCTTCAGGACAGCCTGAGACAGCAGATGTGTCC
AGGGAGCAAGTGGACAAGGAATTGGACAGGGCAAGTAACTCCCTGATTTCTGGCCTGAGTCAAGATGAGGAGGAC
CCTCCGCTGCCCCGACGCCCATGAACAGCTTGGTGGATGAGTGCCCTCTAGATCAGGGGCTGCCTAAACTCTCT
GCTGAGGCCGTCTTCGAGAAGTGAGTCAGATCTCACTGTACAGTCTACCACAGCCTCCCTGTCCAAGAAGTGA

CTGTTGAGAGGCGAGGAGGTAGTGGGTGAGGCTACCTGACTCACTTCAAATGCATGTTTTGAGATGTTTGGAGAT
TCAGCAATTCTGTCTTCATTGCTCCAGGATCTGGTATACTGTTCTCATAAAAGTGAAGAGAGAGAAAAAGTGAAA
GAAAGCAGCTGCTTTAAGAATGGTTTTCCACCTTTTCCCTTAATCTCTACCAATCAGACACATTTATTATTTA
AATCTGCACCTCTCTCTATTTTATTGCGAGGGGACGATGTGACATATCTGCAGTCCCAGCACAGTGGGACAAA
AAGAATTTAGACCCCAAAAGTGTCTCGCATGGATCTTGAACAGAACCAGTATCTGTGATGGAACCTGAACATTC
ATCGATGGTCTCCATGTATTTCATTTATTCACCTTGTTTCATTCAAGTATTTATTGAATACCTGCCTCAAGCTAGAGA
GAAAAGAGAGTGGCCTTTGGAAATTTATTCCAGTTTTTCCAGCTACAGCAGATTATCAGCTCGGTGACTTTTCTTT
CTGCCACCATTTAGGTGATGGTGTGTTGATTGAGAGATGGCTGAATTTCTATTCTTAGCTTATTGTGACTGTTTCA
GATCTAGTTTGGGAACAGATTAGAGGCCATTGTCTTCTGTCTGATCAGGTGGCCTGGCTGTTTCTTTGGATCCC
TCTGTCCCAGAGCCACCCAGAACCCTGACTCTTGAGAATCAAGAAAACACCCAGAAAGGCCTTAATGACCTCATA
GGCACTCTTCCAAAAGACAACAGAAGTGAATGAGAGGCTGGGTCTGTCTCCTGCCTTAGCAGGCCTATCAAT
TTCTTGTAATCTCTTTTTTCTTGTCTCACATTAAGGAAGCATGGAGTTCTAATGCTCCCATAACTATGTA
TTTTGGCAAGACACTTCACTACTCCAGGTCTCACTTTCCCATCTGTAAAACAGGGTTTGGACTAGGTGTTCCCT
GGTATTCTGTGATCTGCCTCTTGTCTGCCATTCTTCTCTCTCTGCTTCTCTGTATTTTCTTCTGTATCCCTG
GGGTGCTCAGGTTCACTTGATTGTCTGTATTTCTGTGTGGTTGTAGCAAGGACTCAGCCTCATGTAGCAGCAAT
AGGGGTGTGGTTTCATGGCGTGTGACCCAGCAGAGCACTCCCTCCCACTAACTTGTCTGCATGTGTAGAGTCTC
CCCATTTTTTTTAAACGCAACCCTTTCCCTTTTCTTACCCACAGCTCTGTCCATGTAAGTTGCCAACAGTTT
CACTGAACAGTGGGGTATGTGATGGTTTTGGCATGACATCTCAGTATGAGGGGACAGTTTGACTTCACTTTGA
GGGTGTGATGTCTGTAGCTATGTGGAAGGTAAAAATAGTGGTGTGATCATGAACCAAGGAATTTATGTTTTGTA
ACTTGGGTACTTTATTTTGCAATTTTGTATATACTATTAATAATTTTTTCTGTT

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FIGURE 355

MEDYLQGCRAALQESRPLHVVLGNEACDL DSTVSALALAFYLAKTTEAEVFPVLNKRSELPLRGDIVFFLQK
VHIPESILIFRDEIDLHALYQAGQLTLILVDHHILSKSDTALEEAVA EVL DHRPIEPKHCPPCHVSVELVGSCAT
LVTERILQGAPEILDRQTAALLHGTTIILDCVNMDLKIGKATPKDSKYVEKLEALFPDLPKRNDIFDSLQKAKFDV
SGLTTEQMLRKDQKTIYRQGVKVAISAIYMDLEAFLQRSNLLADLHAFCAHSYDVLVAMTIFFNTHNEPVRQLA
IFCPHVALQTTICEVLSHSPPLKLT PASSTHENLHAYLQNTQVSRKLLPLLQEALSAYFDSMKIPSGQPET
ADVSREQVDKELDRASNSLISGLSQDEEDPPLPPTPMNSLVDECPLDQGLPKLSAEAVFEKCSQISLSQSTTASL
SKK

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FIGURE 356

GAAACAAGCACTGGATTCCATATCCCCTGCCCCAACCGCATGGTTCAGATTATCGCTATTGCAGCTTTCATCAT
AATACACACCTTTGCTGCCGAAACGAAGCCAGACAACAGATTTCATCAGCAGGATGTGGGGGCTCAAGGTTCTG
CTGCTACCTGTGGTGAGCTTTGCTCTGTACCCTGAGGAGATACTGGACACCCACTGGGAGCTATGGAAGAAGACC
CACAGGAAGCAATATAACAACAAGGTGGATGAAATCTCTCGGCGTTTAAATTGGGAAAAAACCTGAAGTATATT
TCCATCCATAACCTTGAGGCTTCTCTTGGTGTCCATACATATGAACTGGCTATGAACCACCTGGGGGACATGACC
AGTGAAGAGGTGGTTCAGAAGATGACTGGACTCAAAGTACCCCTGTCTCATTCCCGCAGTAATGACACCCTTTAT
ATCCAGAAATGGGAAGGTAGAGCCCCAGACTCTGTGCGACTATCGAAAGAAAGGATATGTTACTCCTGTCAAAAAT
CAGGGTCAGTGTGGTTCCTGTTGGGCTTTTAGCTCTGTGGGTGCCCTGGAGGGCCAACTCAAGAAGAAAACCTGGC
AAACTCTTAAATCTGAGTCCCCAGAACCTAGTGGATTGTGTGTCTGAGAATGATGGCTGTGGAGGGGGCTACATG
ACCAATGCCTTCCAATATGTGCAGAAGAACCGGGGTATTGACTCTGAAGATGCCTACCCATATGTGGGACAGGAA
GAGAGTTGTATGTACAACCCAACAGGCAAGGCAGCTAAATGCAGAGGGTACAGAGAGATCCCCGAGGGGAATGAG
AAAGCCCTGAAGAGGGCAGTGGCCCCGAGTGGGACCTGTCTCTGTGGCCATTGATGCAAGCCTGACCTCCTTCCAG
TTTTACAGCAAAGGTGTGTATTATGATGAAAGCTGCAATAGCGATAATCTGAACCATGCGGTTTTGGCAGTGGGA
TATGGAATCCAGAAGGGAAACAAGCACTGGATAATTA AAAACAGCTGGGGAGAAAACCTGGGGAAACAAAGGATAT
ATCCTCATGGCTCGAAATAAGAACAACGCCCTGTGGCATTGCCAACCTGGCCAGCTTCCCCAAGATGTGACTCCAG
CCAGCCAAATCCATCCTGCTCTTCCATTTCTTCCACGATGGTGCAGTGTAAACGATGCACTTTGGAAGGGAGTTGG
TGTGCTATTTTTGAAGCAGATGTGGTGATACTGAGATTGTCTGTTTCAGTTTCCCCATTGTTTGTGCTTCAAATG
ATCCTTCTACTTTTGCTTCTCTCCACCCATGACCTTTTTCTACTGTGGCCATCAGGACTTTCCCTGACAGCTGTGT
ACTCTTAGGCTAAGAGATGTGACTACAGCCTGCCCCCTGACTGTGTTGTCCCAGGGCTGATGCTGTACAGGTACAG
GCTGGAGATTTTACATAGGTTAGATTCTCATTACGGGACTAGTTAGCTTTAAGCACCCCTAGAGGACTAGGGTA
ATCTGACTTCTCACTTCCTAAGTTCCCTTCTATATCCTCAAGGTAGAAATGTCTATGTTTCTACTCCAATTCAT
AAATCTATTCATAAGTCTTTGGTACAAGTTTACATGATAAAAAGAAATGTGATTGTCTTCCCTTCTTGCCTT
TTGAAATAAAGTATTTATC

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FIGURE 357

MWGLKVLLLPVVSFALYPEEILDTHWELWKKTHRKQYNNKVDEISRRLIWEKNLKYISIHNLASLGVHTYELAM
NHLGDMTSEEVVQKMTGLKVPLSHSRSDTLYIPEWEGRAPDSVDYRKKGYVTPVKNQGQCGSCWAFSSVGALEG
QLKKKTGKLLNLSPQNLVDCVSENDGCGGGYMTNAFQYVQKNRGIDSEDAYPYVQGEESCMYNPTGKAAKCRGYR
EIEGNEKALKRAVARVGPVSVAIDASLTSFQFYSGVYYDESCNSDNLNHAVLAVGYGIQKGNKHWIKNWSGE
NWGNKGYILMARNKNNACGIANLASFPKM

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FIGURE 358

GGCACGAGGAAGGAACATGGCCCTGTATCAGAGGTGGCGGTGTCTCCGGCTCCAAGGTTTACAGGCTTGCAGGCT
ACACACGGCAGTTGTGTGACCCCTCCACGCTGGTTGGCAGAGCGGCTTGGCCTTTTTGAGGAGCTGTGGGCTGC
TCAGGTAAGAGATTAGCAAGCATGGCACAGAAGGAACCCCGGACTATTAAGATATCACTTCCTGGAGGCCAGAA
AATTGATGCTGTGGCATGGAACACAACCCCTACCAACTAGCCCGGCAGATCAGTTCAACTGGCAGATACTGC
AGTGGCTGCTCAAGTGAATGGAGAACCCTATGATCTGGAGCGGCCCTTGGAGACAGATTCTGACCTCAGATTCT
GACATTCGATTCCCCAGAGGGGAAAGCAGTGTCTGGCACTCCAGCACCCATGTCCTGGGGGCAGCAGCTGAACA
ATTCCTAGGTGCTGTTCTCTGCAGAGGTCCAAGTACAGAAATATGGCTTTTACCATGATTCTTCCTGGGAAAGGA
GAGGACAATCCGGGGCTCAGAGCTGCCTGTTTTGGAGCGGATTGTCAGGAACTTACAGCTGCTGCTCGACCCTT
CCGGAGGCTAGAGGCTTCACGGGATCAGCTTCGCCAGTTGTTCAAGGATAACCCCTTTAAGCTTCACTTGATTGA
GGAGAAAGTGACAGGTCCAACAGCAACAGTATATGGGTGTGGCACATTGGTTGACCTTTGCCAGGGCCCCACCT
TCGGCATACTGGACAGATTGGAGGACTGAAGCTGCTATCGAACTCATCATCCTTATGGAGGTCTTCAGGGGCCCC
AGAGACACTGCAGAGAGTGTGAGGGATTTCTTCCCCACAACAGAATTGCTGAGGGTCTGGGAAGCATGGAGGGA
GGAAGCAGAATTGCGGGACCCCGGCGCATTGGGAAGGAACAGGAGCTCTTCTTCTTCCATGAAGTACAGCCCTGG
GAGCTGCTTCTTCTGCCACGAGGGACAAGGTGTATAATGCACTAGTGGCGTTTATCAGGGCTGAGTATGCCCA
TCGTGGTTTCTCCGAGGTGAAAACCTCCACACTGTTTTCTACGAAGCTCTGGGAACAGTCAGGGCACTGGGAGCA
TTATCAGGAAGACATGTTTGCCGTGCAGCCCCAGGCTCTGACAGGCCTCCAGCTCCAGAGTGACGATTCTAC
CAGGCATATCACAGATACACTCGCCCTCAAGCCTATGAAGTGCCTGCACACTGCCTGATGTTCCGCCACCGGCC
CAGATCCTGGCGGGAAGTGCCTTGCAGTACTGCTTGGGGCTCTACACCGGGCCGAAGCCTCTGGTGGTCT
GGGGGGACTGACCCGACTGCGGTGCTTCCAGCAGGATGACGCTCACATCTTCTGTACAACAGATCAGCTGGAAGC
AGAGATCCAAAGCTGTCTTGATTTCCTCCGTTCGGTCTATGCCGTTCTTGGCTTCTCCTTCCGCCTGGCACTGTC
CACCCGGCCATCTGGCTTCTGGGGGACCCTTGCCCTTGGGACCAGGCCGAACAGGTCCTTAAACAGGCCCTGAA
GGAATTTGGAGAACCCTGGGACCTCAACTCTGGAGATGGTGCCTTCTATGGACCTAAGATTGACGTGCACCTCCA
CGATGCCCTGGGCCGGCCACATCAGTGTGGGACAATTCAGCTTGACTTCCAAGTGCCTTGCAGATTGACCTCCA
GTATAAGGGGAGGCGGGGTGCCCTGGAGCGTCCAGTCCCTCATTACCGAGCAGTGCTCGGTTCTGTGGAAAGACT
GTTGGGAGTGTGGCAGAAAGCTGCGGGGGGAAATGGCCACTGTGGCTGTCCCGTTCCAGGTGGTGGTCAATCCC
TGTGGGGAGTGAGCAAGAGGAATACGCCAAAGAGGCACAGCAGACCTGCGGGCTGCAGGACTGGTCAGTGACCT
GGATGCAGACTCTGGACTGACCCTCAGCCGGAGAATCCGCCGGGGCCAGCTTGCCCACTACAATTTTTCAGTTTGT
GGTTGGCCAGAAAGAGCAAAGTAAGAGAACAGTGAACATTCCGACTCGAGATAATCGTCGCCTTGGGGAGTGGGA
CTTGCTGAGGCTGTGCAGCGACTGGTGGAGCTACAGAACACGAGGGTCCCAAATGCCGAAGAAATTTCTGAGC
CTTTGTACATAGATGAGGCAAAAACCTGCGAGTGCCATCAGCCTCCCTCATATGGGAGACCCCAACCCAGCTGAC
AATGTGGAGCCCCCAGAACTTCAGAACTGTGTGGAGGCATGTCTGCTCTCCTGAAAAGAGACTTGGTTTGGGG
ACCCACAAAAGGAGGGAAGCTGTAGCTGTTTGGATGTGAGGAGAATGAACTACAAAAA

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FIGURE 359

MALYQRWRCLRLQGLQACRLHTAVVSTPPRWLAERLGLFEELWAAQVKRLASMAQKEPRTIKISLPGGQKIDAVA
WNTPYQLARQISSSTLADTAVAAQVNGEPYDLERPLETDSDLRFLTFDSPEGKAVFWHSSTHVLGAAAEQFLGAV
LCRGPSTEYGFYHDFFLGKERTIRGSELPVLERICQELTAAARPFRRLEASRDQLRQLFKDNPFKLHLIEEKVTG
PTATVYGCCTLVDLCQGPHLRHTGQIGGLKLLSNSSSLWRSSGAPETLQRVSGISFPTTELLRVWEAWREEAELR
DHRRIGKEQELFFFHELSPGSCFFLPRGTRVYNALVAFIRA EYAHRGFSEVKTPTLFSTKLWEQSGHWEHYQEDM
FAVQPPGSDRPPSSQSDDSTRHITDTLALKPMNCPAHCLMFAHRPRSWRELPLRLADFGALHRAEASGGLGGLTR
LRCFQQDDAHIFCTTDQLEAEIQSCLDFLRVYAVLGF SFRALSTRPSGFLGDPCLWDQAEQVLKQALKEFGEP
WDLNSGDGAFYGP KIDVHLHDALGRPHQCGTIQLDFQLPLRFDLQYKGQAGALERPVLIHRAVLGSVERLLGVLA
ESCGGKWPLWLSPPQVVVIPVGSEQEYAKEAQQSLRAAGLVSDLDADSGLTLSRRIRRAQLAHYNFQFVVGQKE
QSKRTVNI TRDNRRRLGEWDLPEAVQRLVELQNT RVPNAEEIF

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FIGURE 360

ACCAGATCCCAGAGGCTGAACACCTCGACCTTCTCTGCACAGCAGGTCCAGCATCCTTTGAAGCATGAGTTCTTA
CCAGCAGAAGCAGACCTTTACCCCACCACCTCAGCTTCAACAGCAGCAGGTGAAACAACCCAGCCAGCCTCCACC
TCAGGAAATATTTGTTCCCAACCAAGGAGCCATGCCACTCAAAGGTTCCACAACCTGGAAACACAAAGATTCC
AGAGCCAGGCTGTACCAAGGTCCCTGAGCCAGGCTGTACCAAGGTCCCTGAGCCAGGCTGTACCAAGGTCCCTGA
GCCAGGTTGTACCAAGGTCCCTGAGCCAGGCTGTACCAAGGTCCCTGAGCCAGGTTGTACCAAGGTCCCTGAGCC
AGGCTACACCAAGGTCCCTGAACCAGGCAGCATCAAGGTCCCTGACCAAGGCTTCATCAAGTTTCCTGAGCCAGG
TGCCATCAAAGTTCCCTGAGCAAGGATACACCAAAGTTCCCTGTGCCAGGCTACACAAAGCTACCAGAGCCATGTCC
TTCAACGGTCACTCCAGGCCAGCTCAGCAGAAGACCAAGCAGAAGTAATTTGGTGCACAGACAAGCCCTTGAGA
AGCCAACCACCAGATGCTGGACACCCTCTTCCCATCTGTTTCTGTGTCTTAATTGTCTGTAGACCTTGTAATCAG
CACATTGTCACCCCAAGCCATAGTCTCTCTTATTGTATCCTAAAAATACGTACTATAAAGCTTTTGTTCACA
CACACTCTGAAGAATCCTGTAAGCCCCTGAATTAAGCAGAAAGTCITCATGGCTTTTCTGGTCTTCGGCTGCTCA
GGGTTTCATCTGAAGATTCGAATGAAAAGAAATGCATGTTTCCTGCTCTTCCCTCATTAAATTGCTTTTAATTCCA

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FIGURE 361

CAGTTCTAAGGGACCATACAGAGTATTCCTCTCTTCACACCAGGACCAGTCACTGTTGCAGCATGAGTTCCCAGC
AGCAGAAGCAGCCTTGCACCCCACCCCCTCAGCTTCAGCAGCAGCAGGTGAAACAGCCTTGCCAGCCTCCACCTC
AGGAACCATGCATCCCCAAAACCAAGGAGCCCTGCCACCCAAGGTGCCTGAGCCCTGCCACCCAAGTGCCCG
AGCCCTGCCAGCCCAAGGTTCCAGAGCCATGCCACCCAAGGTGCCTGAGCCCTGCCCTTCAATAGTCACTCCAG
CACCAGCCCAGCAGAAGACCAAGCAGAAGTAATGTGGTCCACAGCCATGCCCTTGAGGAGCCGGCCACCAGATGC
TGAATCCCCTATCCCATTCTGCGTATGAGTCCCATTGCTTGCAATTAGCATTCTGTCTCCCCCAAAAAGAAT
GTGCTATGAAGCTTTCTTTCTACACACTCTGAGTCTCTGAATGAAGCTGAAGGTCTTAGTACCAGAGCTAGTTT
TCAGCTGCTCAGAATTCATCTGAAGAGAGACTTAAGATGAAAGCAAATGATTCAGCTCCCTTATACCCCATTAA
ATTCACTTTCAATTCCA

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FIGURE 362

MSSQQQKQPCTPPQLQQQVVKQPCQPPQEPKIPKTKEPCHPKVPEPCHPKVPEPCQPKVPEPCHPKVPEPCPS
IVTPAPAQQKTKQK

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FIGURE 363

ATGACAATTGCAAAGGTGGTAGAAGCTCATGACCAGGTGACAGACAGACACAGAACACATCAACAGAATTGTCTG
ATGGTTCCCAAGGGAGAGAGCTGCTGCTCTTTCTTCCGAAGCTCTGGGAGCTGGCACAGCTGAGGACTTCCTTTTC
TTAGCTCCACCTGGACAGTGGCAGTATGGCAGCCTCAGAAAAGGGAATCTTTTGCTGTCACAGATCATCACAGGCA
GGCCACAGGTTAAGGAGAAAGAAGCTCCCTGTGCATCCATGGAAGGCTTTGGTGAGAAGATGCAAGTGGAGCTGT
GGAACGAGGGAGAGAGCTGCTGCTCTTTCTTCCGAAGCTCTGGGAGCTGGCACAGCCCAGGACTTCCTTTGCTCA
GTCTCCACCTGGACAGTGGCAGTATGGCAGCCTCAGAAAAGAACTTTTTGCTGTCAGGGATCATCATGGGCAGA
TTACTGGCTAAGGAGAAAGAAGCTCCCTGTGTATCCATGGTAGGCTTTGATGAGAAGATGAAGGTGGAGCTGTGG
AACGAGATACTTTATTACAGGGAGTGAAAGAAAAGTGACAATTGCACAGGTGGTAGAAGCTCATGCCCAGGTGAAA
GACAGACACAGAACACATCAACAGAATTCTCTGATGGTTCCCAAGGCACACAGCTGCAGCTCTTTCTGCTGAAGCT
CTGGGAACTGACAAAGCCAAGGTTCTTTGCTCAGTCTCCACCTGGACAGTGGCATCTCCACCTGGACAGTGGCA
ATATGGCAGCCTCAGAAAGGAAACCTTTTGCTATCAGGGATCATCATGGGCAGATCACTGGCTAAGAGGAAAGAA
GCTAACTGTGTATCCATGGTAGGCTTTGATGAGAAGATGCAGGTGAAGCTGTGGACAAGTGCAGGCACACAGAGC
AGCAGCAGCCCTAGTGCCCCAGCATCTCAGACAGGCTCACTTTACAAGTTGAGGTGATGAACCTGAAGCTAAGA
GTTCTTCACAGTCCAGGGAGTGAAAGGAAAGTGACAACCTGCACAGGTGGTGGAAAGCTCATGCCCAGGGGACAGAC
AGACACAGAAAACATCAACAGAATTCTCTAATGGTTCCCAAGGGAGAGAGCTGCTCTTTCTTCTGAAGCTCTGGGA
GCTGGCACAGCCCAGGACTTCCTTTGCTCAGTCTCCACCTGGACAGTGGCAGTATGGCAGCCTCAAAAAGAAAAC
CTTTTGCTATCAGAGATCATCACAGGCCGATCACAGGCTAAGAGGAAAGAAGCTCCCTGTGTATCCCTGGATGGC
TTTGATGAGAAGATGCAGGTGGAGCTGTGGAACGAGCATCAAATCAACATTCATAGGATTGGATCAACCAAACCTT
GCTGTATTACAGATTAAATTCAACATTTAGGGGCACAAAGAACAGAGGAACTCCAGGAAGCCGACTCACCAGGTTT
TCCAAGGCAGATCGGTGCTTAGGAGACTATAATCCGTGTGGACAGCCACCTAGAAGCAAACCTTCTGGCCATGGTA
GCACAGACTGTGTATCATTTCCAGGTTCTGTGGCCAAGCCCCCAACAGGAATCACGTAGTGAAGTTCAAAGAA
ACTTCCAAAAGGTGCAGCAAAAAGAAAGAAAAGAAAACATAA

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FIGURE 364

AAACACTCTGTGTGGCTCCTCGGCTTTGGGACAGAGTGCAAGACGATGACTTGCAAAATGTCGCAGCTGGAACGC
AACATAGAGACCATCATCAACACCTTCCACCAATACTCTGTGAAGCTGGGGCACCCAGACACCCTGAACCAGGGG
GAATTCAAAGAGCTGGTGCAGAAAAGATCTGCAAAATTTTCTCAAGAAGGAGAATAAGAATGAAAAGGTCATAGAA
CACATCATGGAGGACCTGGACACAAATGCAGACAAGCAGCTGAGCTTCGAGGAGTTCATCATGCTGATGGCGAGG
CTAACCTGGGCCTCCACGAGAAGATGCACGAGGGTGACGAGGGCCCTGGCCACCACCATAAGCCAGGCCTCGGG
GAGGGCACCCCTTAAGACCACAGTGGCCAAGATCACAGTGGCCACGGCCATGGCCACAGTCATGGTGGCCACGGC
CACAGGCCACTAATCAGGAGGCCAGGCCACCCTGCCTCTACCCAACCAGGGCCCCGGGGCCTGTTATGTCAAAC
GTCTTGGCTGTGGGGCTAGGGGCTGGGGCCAAATAAAGTCTCTTCCTCCAA

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FIGURE 365

MTCKMSQLERNIETIINTFHQYSVKLGHPDTLNQGEFKELVRKDLQNFLKKENKNEKVIEHIMEDLDTNADKQLS
FEEFIMLMARLTWASHEKMHEGDEGPGHHHKPGLGEGTP

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FIGURE 366

GAGCAGCCTTCCTGAGAGAGGAGAGAGAAAGCTCAGGGAGGTCTGGAGCAAAGATACTCCTGGAGGTGGGGAGTG
AGGCAGGGATAAGGAAGGAGAGTATCCTCCAGCACCTTCCAGTGGGTGGGGCAAGTCCGTGGGCATCATGTTGAC
CGAGCTGGAGAAAGCCTTGAAGTCTATCATCGACGTCTACCACAAGTACTCCCTGATAAAGGGGAATTTCCATGC
CGTCTACAGGGATGACCTGAAGAAATTGCTAGAGACCGAGTGTCTCAGTATATCAGGAAAAGGGTGCAGACGT
CTGGTTCAAAGAGTTGGATATCAACACTGATGGTGCAGTTAACTTCCAGGAGTTCCTCATTCTGGTGATAAAGAT
GGGCGTGGCAGCCACAAAAAAGCCATGAAGAAAGCCACAAAGAGTAGCTGAGTTACTGGGCCAGAGGCTGGG
CCCCTGGACATGTACCTGCAGAATAATAAAGTCATCAATACCTC

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FIGURE 367

GGGACCGCTATAAGGCCAGTCGGACTGCGACATAGCCCATCCCCTCGACCGCTCGCGTCGCATTTGGCCGCCTCC
CTACCGCTCCAAGCCCAGCCCTCAGCCATGGCATGCCCCCTGGATCAGGCCATTGGCCTCCTCGTGGCCATCTTC
CACAAGTACTCCGGCAGGGAGGGTGACAAGCACACCCTGAGCAAGAAGGAGCTGAAGGAGCTGATCCAGAAGGAG
CTCACCATTGGCTCGAAGCTGCAGGATGCTGAAATTGCAAGGCTGATGGAAGACTTGGACCGGAACAAGGACCAG
GAGGTGAACCTCCAGGAGTATGTCACCTTCCTGGGGGCCTTGGCTTTGATCTACAATGAAGCCCTCAAGGGCTGA

AAATAAATAGGGAAGATGGAGACACCTCTGGGGGTCTCTCTGAGTCAAATCCAGTGGTGGGTAATTGTACAATA
AATTTTTTTTGGTCAAATT

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FIGURE 368

MACPLDQAIGLLVAIFHKYSGREGDKHTLSKKELKELIQKELTIGSKLQDAEIARLMEDLDRNKDQEVNFQEYVT
FLGALALIYNEALKG .

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FIGURE 369

ATTCTTCCCCTCTCTACAACCCTCTCTCCTCAGCGCTTCTTCTTCTTGGTTTGATCCTGACTGCTGTCATGGCG
TGCCCTCTGGAGAAGGCCCTGGATGTGATGGTGTCCACCTTCCACAAGTACTCGGGCAAAGAGGGTGACAAGTTC
AAGCTCAACAAGTCAGAACTAAAGGAGCTGCTGACCCGGGAGCTGCCCAGCTTCTTGGGGAAAAGGACAGATGAA
GCTGCTTTCCAGAAGCTGATGAGCAACTTGGACAGCAACAGGGACAACGAGGTGGACTTCCAAGAGTACTGTGTC
TTCTGTCTGCATCGCCATGATGTGTAACGAATTCTTTGAAGGCTTCCCAGATAAGCAGCCCAGGAAGAAATGA

AAACTCCTCTGATGTGGTTGGGGGGTCTGCCAGCTGGGGCCCTCCCTGTGCCCAGTGGGCACTTTTTTTTTTCCA
CCCTGGCTCCTTCAGACACGTGCTTGATGCTGAGCAAGTTCAATAAAGATTCTTGGAAGTTT

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FIGURE 370

MACPLEKALDVMVSTFHKYSGKEGDKFKLNKSELKELLTRELPSFLGKRTDEAAFQKLMSNLDSNRDNEVDFQY
CVFLSCIAMMCNEFFEGFPDKQPRKK

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FIGURE 371

GGTGCTTCTGAGATGTGGGCTTGCACACGCTGTTGCTATAGTACGTGTGATCCTGACTGCTGTCATGGCGTGCCC
TCTGGAGAAGGCCCTGGATGTGATGGTGTCCACCTTCCACAAGTACTCGGGCAAAGAGGGTGACAAGTTCAAGCT
CAACAAGTCAGAACTAAAGGAGCTGCTGACCCGGGAGCTGCCAGCTTCTTGGGGAAAAGGACAGATGAAGCTGC
TTTCCAGAAGCTGATGAGCAACTTGGACAGCAACAGGGACAACGAGGTGGACTTCCAAGAGTACTGTGTCTTCCT
GTCCTGCATCGCCATGATGTGTAACGAATTCTTTGAAGGCTTCCCAGATAAGCAGCCCAGGAAGAAATGAAAACT
CCTCTGATGTGGTTGGGGGGTCTGCCAGCTGGGGCCCTCCCTGTCGCCAGTGGGCACTTTTTTTTTCCACCCTG
GCTCCTTCAGACACGTGCTTGATGCTGAGCAAGTTCAATAAAGATTCTTGGAAGTTT

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FIGURE 372

MACPLEKALDVMVSTFHKYSGKEGDKFKLNKSELKELLTRELPSTFLGKRTDEAAFQKLMSNLDSNRDNEVDFQEY
CVFLSCIAMMCNEFFEGFPDKQPRKK

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FIGURE 373

ACACATTCCCCACCCTCTGGGAGCTCCTAGTCTGAGAGAGGAAACACTCCTGCCCAAGGGAGCTTCCAGTTAGAT
GGCAGAGAGAGATGCCTCTGGCTTCAGGAGTCCCGAGTCTAAGGAGGGAAACGACTCCTTCAGGGAGCTTCCTGC
TCCTAGGCTGTAGCCATGGCTCCTGCCAGACTGCACAGGAGCCCCCATCTGCCAGCCGGTGCATGTGGCCCTGCT
CCCCAGAGCCTGCGCAGATGCCATCAAAATGGGACTCTGGTCAACCCTGTCATTTCCCTTCTGGCAGACACTAAAA
TGGGGAGCCCTGCCCTCAGGGGGGTGTCCCAAGTGCCATCAGAGGAGGCTTGGTGACTCCCAGACACAAGGGGAG
CTTAGCGTCTGCCCTCAGGGTGAGATGGAGGTATCGCCTCCGGCCTCAGGGAACACAGTCTGAGGGGGAGATG
CAGCCCCTGCTTCCCATTCAGAGAGGGGTTTTGTGAGGTGGCTTGGGGGCATAGGGCAGAAGTGGATCCTACAG
GCTGAGCTAAGGCCCCAAGAGCCTCAGCAGTGTACCCATCACCTGGCACCTCTGCAGCCACAGATCCATGATGTG
CAGTTCTCTGGAGCAGGCGCTGGCTGTGCTGGTCACTACCTTCCACAAGTACTCCTGCCAAGAGGGGCGACAAGTT
CAAGCTGAGTAAGGGGGAAATGAAGGAACTTCTGCACAAGGAGCTGCCAGCTTTGTGGGGGAGAAAGTGGATGA
GGAGGGGCTGAAGAAGCTGATGGGCAGCCTGGATGAGAACAGTGACCAGCAGGTGGACTTCCAGGAGTATGCTGT
TTTCCTGGCACTCATCACTGTATGTGCAATGACTTCTTCCAGGGCTGCCAGACCGACCCTGAAGCAGAACTCT
TGACTTCCTGCCATGGATCTCTTGGGCCCAGGACTGTTGATGCCTTTGAGTTTTGTATTCAATAAACTTTTTTG
TCTGTTGATAATATTTTAATTGCTCAGTGATGTTCCATAACCCGGCTGGCTCAGCTGGAGTGCTGGGAGATGAGG
GCCTCCTGGATCCTGCTCCCTTCTGGGCTCTGACTCTCCTGGAAATCTCTCCAAGGCCAGAGCTATGCTTTAGGT
CTCAATTTTGAATTTCAAACACCAGCAAAAAATTGGAATCGAGATAGGTTGCTGACTTTTATTTTGTCAAATA
AAGATATTAAAAAAGGC

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FIGURE 374

GGACTGTTGAAGACAGGTCTCCACACACAGCTCCAGCAGCCACATTTGCAACCTTGGCCATCTGTCCAGAACCTG
CTCCCACCTCAGGCCCAGGCCAACCGTGCACTGCTGCAATGGGCTCTGAGCTGGAGACGGCGATGGAGACCCCTCA
TCAACGTGTTCCACGCCCCTCGGGCAAAGAGGGGGACAAGTACAAGCTGAGCAAGAAGGAGCTGAAAGAGCTGC
TGCAGACGGAGCTCTCTGGCTTCCTGGATGCCCAGAAGGATGTGGATGCTGTGGACAAGGTGATGAAGGAGCTAG
ACGAGAATGGAGACGGGGAGGTGGACTTCCAGGAGTATGTGGTGCTTGTGGCTGCTCTCACAGTGGCCTGTAACA
ATTTCTTCTGGGAGAACAGTTGAGCAGACAGCCACATTGGGCAGCGCCCTTCCTCTCCACCCTCCCAGACCTGCC
TCTTCCCCCTGCTTCCACCTCACCCCACTTATCCCTCTCCATAACCCCAACCCTTGCCCCACCCCAACCCCAACCCCA
ACCAAGGGCGCAAGAGTAGCGGTCCAAGCCTGCAACTCATCTTTTATTAAAGGCTTCTCTCTCACCAGCAAAAAA
AAAAAA

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FIGURE 375

MGSELETAMETLINVFHAHSGKEGDKYKLSKKELKELLQTELSGFLDAQKDVAVDKVMKELDENG DGEVDFQEY
VVLVAALTVACNNFFWENS

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FIGURE 376

TCAGACAAGCACTGGACGTGGCGGCCATTTTGTGTTTGGACACCGAGCAGGAGCTGGCGGCCGCTGCAGACGAAAG
GCAGGAAAGGGCAGGCCGGGTGAGCAGACGGATCGGCCGACTAGACAGCCAACCAGCAACAACGAACTGAGCTCG
CATACTACCGCTTACGCATCTAACCAACCGCCCATCTAGCTAACCCGAGCCCCTCCACCGTCAACTCAGGTTCCG
CCGGTCCCCGGCCCGCCTGCCGGAGCCGTGGTGGCAGCCCCGGGAGGAGCACTGGCGTCTGTTTCCTTCGATTCT
CGGGATTGGAAGATGGCTGCACAGTCAGCGCCGAAAGTTGTGCTAAAAAGCACCACCAAGATGTCTCTAAATGAG
CGCTTTACTAATATGCTGAAGAACAACAGCCGACGCCAGTGAATATTCGGGCTTCGATGCAGCAACAACAGCAG
CTAGCCAGTGCCAGAAACAGAAGACTGGCCCAGCAGATGGAGAATAGACCCTCTGTCCAGGCAGCATTAAACTT
AAGCAGAGCTTAAAGCAGCGCCTGGGTAAGAGTAACATCCAGGCACGGTTAGGCCGACCCATAGGGGCCCTGGCC
AGGGGAGCAATCGGAGGACGAGGCCTACCCATAATCCAGAGAGGCTTGCCAGAGGAGGACTACGTGGGGGACGT
GCCACCAGAACCCTACTTAGGGGCGGGATGTCACTCCGAGGTCAAAACCTGCTCCGAGGTGGACGAGCCGTAGCT
CCCCGAATGGGCCTTAAGAAGAGGTGGTGTTCGAGGTCGTGGAGGTCCTGGGAGAGGGGGCCTAGGGCGTGGAGCT
ATGGGTCGTGGCGGAATCGGTGGTAGAGGTGGGGTATGATAGGTCGGGGAAGAGGGGGCTTTGGAGCCGAGGC
CGAGGCCGTGGACGAGGGAGAGGTGCCCTTGCTCGCCCTGTATTGACCAAGGAGCAGCTGGACAACCAATTGGAT
GCATATATGTCGAAAACAAAAGGACACCTGGATGCTGAGTTGGATGCCTACATGGCGCAGACAGATCCCGAAACC
AATGATTGAAGCCTGCCCATCCTCCCATGAGAGACTCTTGTAGTCAACACATCTGTAAATAACCTTGAGATAAC
AGATGAGAAGAAATCTGATTGATGCTGGATGGACCTATCACAATAGGCTGTGGACTTACTTGCCACCAGCTTGTG
CATTTAGTGTGTTCCCTTTTACTTTTIGATACTGTGTTGTATGAAACCCTTTTGTCTTTGATTTGGTTTTTTGTT
TTTGTTTTTTTAGGGGGGAGGGGGGGTTTTCCCTCCTTTGCCAGACTTCTCTTTGAACACAAATGCATTAGCCT
TGTTGGCTAGAACACCCTCTTCTACCTCTGTCTCCCCTCATTGTCTATATGCTCTGACATGCTAACATTTCTTTT
GTTTCATCCCTGTTGCCCCACAGAAACATCCAGAAAAACCGTCAGTGTTCTTCTCCCTGATCCTTAGGTTT
CTGAAATAGGGTTCTGTTACATCCTCTTCGATAGCCTGTTTAAATGTTTAGAAGGTCTGGAGCTCAAAATGCG
TTCTTCC

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FIGURE 377

AGGGGTGACAGAGGCCGTGGTCGTGGTGGGCGCTTTGGTTCCAGAGGAGGCCAGGAGGGGTTTCAGGCCCTTT
GTACCACATATCCCATTGACTTCTATTTGTTGTTTACTTCTGGTTTAGTGTGAAATGGCCTTTCCCGGGTCAA
GCCAGCACCTGATGAACTTCCTTCAGTGAGGCCTTGCTGAAGAGGAATCAGGACCTGGCTCCCAATTCGTCTGA
ACAGGCATCTATCCTTTCTCTGGTGACAAAAATAACAATGTGATTGATAATCTGATTGTGGCTCCAGGGACATT
TGAAGTGCAAATTGAAGAAGTTCGACAGGTGGGATCCTATAAAAAGGGGACAATGACTACAGGACACAATGTGGC
TGACCTGGTGGTGATACTCAAGATTCTGCCAACGTTGGAAGCTGTTGCTGCCCTGGGGAACAAAGTCGTGAAAG
CCTAAGAGCACAGGATCCTTCTGAAGTTTTAACCATGCTGACCAACGAAACTGGCTTTGAAATCAGTTCTTCTGA
TGCTACAGTGAAGATTCTCATTACAACAGTGCCACCCAATCTTCGAAAACCTGGATCCAGAACTCCATTGGATAT
CAAAGTATTGCAGAGTGCCCTTAGCAGCCATCCGACATGCCCGTGGTTCGAGGAAAATGCTTCTCAGTCCACAGT
TAAAGTTCATCAGACTACTGAAGGACTTGAGGATTGTTTTCTGGCTTTGAGCCCCTCACACCCTGGATCCT
TGACCTACTAGGCCATTATGCTGTGATGAACAACCCACCAGACAGCCTTTGGCCCTAAACGTTGCATACAGGCG
CTGCTTGCAAGATTCTGGCTGCAGGACTGTTCTGCCAGGTTTCAGTGGGTATCACTGACCCCTGTGAGAGTGGCAA
CTTTAGAGTACACACAGTCATGACCCTAGAACAGCAGGACATGGTCTGCTATACAGCTCAGACTCTCGTCCGAAT
CCTCTCACATGGTGGCTTTAGGAAGATCCTTGCCAGGAGGGTGATGCCAGCTATCTTGCTTCTGAAATATCTAC
CTGGGATGGAGTGATAGTAACACCTTCAGAAAAGGCTTATGAGAAGCCACCAGAGAAGAAGGAAGGAGAGGAAGA
AGAGGAGAATACAGAAGAACCACCTCAAGGAGAGGAAGAAGAAAGCATGGAACTCAGGAGTGACATTCCCTTCA
CTCCTTTTCTACCCAAGGGGGAAGACTGGAGCCTAAGCTGCCTGCTACTGGGCTTTACATGGTGACAGACATTT
CCGTGGGATAGGGAAGATAGCAGGAAGAAAAGTAAACTCCATAGAAGTGTCAATCCACTGGGTTTTGATATTGGC
TTAGCTGCCAGTCTCCCATTTGTGACCTATGCCATCCATCTATAATGGAGGATACCAACATTTCTTCCTAATATT
CTATAATCTCCAACCTCTGAAAACCCCTCTCTCAACTAATACTTTGCTGTTGAAATGTTGTGAAATGTTAAGTGT
CTGGAAATTTTTTTTTCTAAGAAAACTATTAAAGTACTT

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FIGURE 378

MRGDRGRGRGGRFGSRGGPGGGFRPFVPHIPDFYLCEMAFPRVKPAPDETSFSEALLKRNQDLAPNSAEQASIL
SLVIKINNVIDNLIVAPGTFEVQIEEVQRQVGSYKKGTTTGHNVADLVVILKILPTLEAVAALGNKVVESLRAQD
PSEVLTMLTNETGFEISSDATVKILITVPPNLRKLDPELHLDIKVLSALAAIRHARWFEENASQSTVKVLIR
LLKDLRIRFPGFEPITPWILDLLGHYAVMNNPTRQPLALNVAYRRCLQILAAGFLPGSVGITDPCESGNFRVHT
VMTLEQQDMVCYTAQTLVRILSHGGFRKILGQEGDASYLASEISTWDGVIPTPSEKAYEKPPEKKEGEEEEENTE
EPPQGEEESMETQE

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FIGURE 379

CACACCCGCACTCCTCCCGGGTTTCTGCTCTCCGCCCGTGTGGAGTGGTGGGGGCTGGGTGGGAATGGGCGTGT
GCCAGCGCACGCGCGCTCCCTGGAAGGAGAAGTCTCAGCTAGAACGAGCGGCCCTAGGTTTTTCGGAAGGGAGGAT
CAGGGATGTTTTGCGAGCGGCTGGAACAGACGGTGCCGATAGAGGAAGCGGGCTCCATGGCTGCCCTCCTGTCTGC
TGCCCTGTCTGCTGTTGCTACCGCTGCTGCTGCTGAAGCTACACCTCTGGCCGCAGTTGCGCTGGCTTCCGGCGG
ACTTGGCCTTTGCGGTGCGAGCTCTGTGCTGCAAAAGGGCTCTTCGAGCTCGCGCCCTGGCCGCGGCTGCCGCCG
ACCCGGAAGGTCCCGAGGGGGGCTGCAGCCTGGCCTGGCGCCTCGCGGAACTGGCCCAGCAGCGCGCCGCGCACA
CCTTTCTCATTACAGGCTCGCGGCGCTTTAGCTACTCAGAGGCGGAGCGCGAGAGTAACAGGGCTGCACGCGCCT
TCCTACGTGCGCTAGGCTGGGACTGGGGACCCGACGGCGCGCAGAGCGGCGAGGGGAGCGCTGGAGAAGGCGAGC
GGGCAGCGCCGGGAGCCGGAGATGCAGCGCCGGAAGCGGCGCGGAGTTTGCCGGAGGGGACGGTGCCGCCAGAG
GTGGAGGAGCCCGCCCTCTGTACCTGGAGCAACTGTGGCGCTGCTCCTCCCGCTGGCCCAGAGTTTCTGT
GGCTCTGGTTGCGGCTGGCCAAGGCCGCGCTGCGCACTGCCTTTGTGCCACCGCCCTGCGCCGGGGCCCCCTGC
TGCACTGCCTCCGCAGCTGCGGCGCGCGCGCTGGTGTGGCGCCAGAGTTTCTGGAGTCCCTGGAGCCGGACC
TGCCCGCCCTGAGAGCCATGGGGCTCCACCTGTGGGTGCAGGCCCAGGAACCCACCCTGCTGGAATTAGCGATT
TGCTGGCTGAAGTGTCCGCTGAAGTGGATGGGCCAGTGCCAGGATACCTCTCTTCCCCCAGAGCATAACAGACA
CGTGCTGTACATCTTACCTCTGGCACCACGGGCCCTCCCCAAGGTGCTCGGATCAGTCATCTGAAGATCTTGC
AATGCCAGGGCTTCTATCAGCTGTGTGGTGTCCACCAGGAAGATGTGATCTACCTCGCCCTCCCACTCTACCACA
TGTCCGTTTCCCTGCTGGGCATCGTGGGCTGCATGGGCATTGGGGCCACAGTGGTGCTGAAATCCAAGTTCTCGG
CTGGTCAGTTCTGGGAAGATTGCCAGCAGCACAGGGTGACGGTGTTCAGTACATTGGGGAGCTGTGCCGATACC
TTGTCAACCAGCCCCGAGCAAGGCAGAAGCTGGCCATAAGGTCCGGCTGGCAGTGGGCAGCGGGCTGCGCCAG
ATACCTGGGAGCGTTTTGTGCGGCGCTTCGGGCCCTGCAGGTGCTGGAGACATATGGACTGACAGAGGGCAACG
TGGCCACCATCAACTACACAGGACAGCGGGGCGCTGTGGGGCGTGCTTCTGGCTTTACAAGCATATCTTCCCT
TCTCCTTGATTGCTATGATGTACCAACAGGAGAGCCAATTGCGGACCCCAAGGGGCACTGTATGGCCACATCTC
CAGGTGAGCCAGGGCTGCTGGTGGCCCCGGTAAGCCAGCAGTCCCCATTCTGGGCTATGCTGGCGGGCCAGAGC
TGGCCCAGGGGAAGTTGCTAAAGGATGTCTTCCGGCTGGGGATGTTTTCTTCAACACTGGGGACCTGCTGGTCT
GCGATGACCAAGGTTTTCTCCGCTTCCATGATCGTACTGGAGACACCTCAGGTGGAAGGGGAGAATGTGGCCA
CAACCGAGGTGGCAGAGGTCTTCGAGGCCCTAGATTTCTTCAGGAGGTGAACGTCTATGGAGTCACTGTGCCAG
GGCATGAAGGCAGGGCTGGAATGGCAGCCCTAGTTCTGCGTCCCCCCCACGCTTTGGACCTTATGCAGCTCTACA
CCCACGTGTCTGAGAACTTGCCACCTTATGCCCCGGCCCCGATTCTCAGGCTCCAGGAGTCTTTGGCCACCACAG
AGACCTTCAAACAGCAGAAAGTTCGGATGGCAAATGAGGGCTTCGACCCAGCACCCTGTCTGACCCACTGTACG
TTCTGGACCAGGCTGTAGGTGCCTACCTGCCCTCACAACCTGCCCGGTACAGCGCCCTCCTGGCAGGAAACCTTC
GAATCTGAAGAACTCCACACCTGAGGCACCTGAGAGAGGAACCTCTGTGGGGTGGGGGCGGTGTCAGGTGTACTGG
GCTGTGAGGATCTTTCTATACCAGAACTGCGGTCACTATTTTGTAAATAAATGTGGCTGGAGCTGATCCAGCTG
TCTCTGACCTACAAAAAAAAAAAAAAAAAAAA

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FIGURE 380

MGVCQRTAPWKEKSQLERAALGFRKGGSGMFASGWNQTVPIEEAGSMAALLLPLLLLLPLLLLKLHLWPQLRW
LPADLAFVRLCCKRALRARALAAAAADPEGPEGCSLAWRLAELAQQRAAHTFLIHGSRFSYSEAERESNR
ARAFRLALGWDWGPDDGDSGEGSAGEGERAAPGAGDAAAGSGAEFAGGDGAARGGGAAPLSPGATVALLLPAGP
EFLWLWFLAKAGLRTAFVPTALRRGPLLHCLRSCGARALVLAPEFLESLEPDLPALRAMGLHLWAAGPGTHPAG
ISDLLAEVSAEVDGPVPGYLSSPQSITDTCLYIFTSGITGLPKAARISHLKILQCQGFYQLCGVHQEDVIYLALP
LYHMSGSLGIVGCMGIGATVVLKSKFSAGQFWEDCQQHRVTVFQYIGELCRYLVNQPPSKAERGHKVR LAVSG
LRPDTWERFVRRFGPLQVLETYGLTEGNVATINYTGQRGAVGRASWLYKHIFPFSLIRYDVTTGEPIRD PQGHCM
ATSPGEPGLLVAPVSQQSPFLGYAGGP ELAQGKLLKDVF RPDVFFNTGDLLVCDDQGF LRFH DRTGDTFRWKGE
NVATTEVAEVFEALDFLQEVNVYGVTVPGHEGRAGMAALVLRPPHALDLMQLYTHVSENLPYARPRFLRLQESL
ATTETFKQQKVRMANEGFDPSTLS DPLYVLDQAVGAYLPLTTARYSALLAGNLRI

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FIGURE 381

GGCACGAGGGGGCTTCAGGACAATTCGTGATGGCGGGGGCTGGTTCCGCCGCTGTATCGGGGGCAGGGACCCCGG
TGGCGGGGGCCACAGGCCGCGACCTTTTCGCCGAAGGGCTGCTGGAGTTCCCTGCGACCCGCTGTGCAGCAGCTCG
ACTCTCACGTACACGCCGTCAGAGAGAGCCAGGTAGAGCTCCGGGAACAAATTGACAACCTAGCCACAGAACTGT
GCCGCATAAATGAGGATCAGAAGGTGGCCCTGGATCTTGACCCCTATGTTAAGAAGCTACTTAATGCCCGGCGAC
GCGTTGTCTTGGTTAACAACATTCTACAGAATGCTCAGGAACGACTGAGACGGCTAAACCACAGTGTTGCCAAGG
AAACAGCCCGCAGGAGAGCAATGCTGGATTTCGGGAATTTACCCCCCTGGCTCCCCAGGCAAATAACAGATGAGCC
TATGGACTCAGTAGCACAACTGTTCCCCAGCTGCCTTGTTTCAACAGACATGCAAAGATCCTAGGAGACAGT
CCCCATAGACCTTCAGACATTAAAAAGGGAGCCGTACAGTTTGTGTTGAAGCACTTCGTCTTACCCATTTATGTAG
GGGCCCCAGGAAACCTACACACAGCCAGAATGAGGTTCCCAAAGGACTTACATTAATTATGGCTCTTGCTTCCTT
TCACAAATGAGCTGAGGCCTCTACTTTTTTTTTTTTAAAGCTGCATACTTGAGGCTTACCTTCTTCAGGACTAGTT
AACCAGAGGGGCTTCCTTTGTATGTTACATGCCTGGTTACATGGGCCTGGACAGCATGTCCTCTACCTGTGACTT
CTCATTTTCCTGTTTACACTGGGGATTGGAGGGGGCAGGCAAAGTCAAAGTGAATGACCTCTGTCCACCCACTT
TTTTATTGCACTGGCTTGAATACAGTAGCAGTGTGATAGAATCATTTTATTCAATAAATACTTAAATGAAAAA
AAAAAAAAAAAAAAAAAAAAA

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FIGURE 382

MAGAGSAAVSGAGTPVAGPTGRDLFAEGLLEFLRPAVQQLD SHVHAVRESQVELREQIDNLATELCRINEDQKVA
LDDPYVKKLLNARRRVVLVNNILQNAQERLRRLNHSVAKETARRRAMLDSGIYPPGSPGK

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FIGURE 383

CTATGATAAGCTAATTATTTATGTTTGCATAATATTTATGTTTGCATGTTAGTGACATATATTTTAAATGTGAT
ACACTCCTGTAATTTATGAGAGTATGTTTCATTGCTGTGAGCTTTGAAGGTGCTCTAATCCTTCCTCATATTTGGC
CTTAGAATGCACCTCGGATCCCCAAGGTTTAGGCTTTCTTCATTTGTCTTTGAACTATATCTTCTGTCTCTTG
TCATATCTGCTTATTGCGTGTTTTTCATACCTTCCACCTCICTAAAAGCCGTTACCTGAGCCCTCGTTATCACTT
TTGGTTGAATGTGCTGCACTTAGCTGCATTTCTAAGTTTCTGATTCTTGCAAGTTTGTGGAAACAGAGGAGTCTT
TAACCCACATCAGCCTTGATCTAAGTGTACCACTTTACTTAAAAGTTCGTGGGATCTGGAGCTCCTGGTCTAGCA
AGCCATGAAAATGCCAATAAATGTTTGTAATAAAGCTTTTATTTAAACATCCATTTTGTTCGACCTTGAAGCTTT
ACTAATATGCTGAAGAACAACAGCCGACGCCAGTGAATATTCGGGCTTCGATGCAGCAACAACAGCAGCTAGCC
AGTGCCAGAAACAGAAGACTGGCCAGCAGATGGAGAATAGACCTCTGTCCAGGCAGCATTAAAACTTAAGCAG
AGCTTAAAGCAGCGCCTGGGTAAGAGTAACATCCAGGCACGGTTAGGCCGACCCATAGGGGCCCTGGCCAGGGGA
GCAATCGGAGGACGAGGCCTACCCATAATCCAGAGAGGCTTGCCAGAGGAGGACTACGTGGGGGACGTGCCACC
AGAACCCTACTTAGGGGCGGGATGTCACTCCGAGGTCAAAACCTGCTCCGAGGTGGACGAGCCGTAGCTCCCCGA
ATGGGCTTAAGAAGAGGTGGTGTTCGAGGTCGTGGAGGTCCTGGGAGAGGGGGCCTAGGGCGTGGAGCTATGGGT
CGTGGCGGAATCGGTGGTAGAGGTCGGGGTATGATAGGTCGGGGAAGAGGGGGCTTTGGAGGCCGAGGCCGAGGC
CGTGGACGAGGGAGAGGTGCCCTTGCTCGCCCTGTATTGACCAAGGAGCAGCTGGACAACCAATTGGATGCATAT
ATGTCGAAAACAAAAGGACACCTGGATGCTGAGTTGGATGCCTACATGGCGCAGACAGATCCCGAAACCAATGAT
TGAAGCCTGCCATCCTCCCATGAGAGACTCTTGTTAGTCAACACATCTGTAAATAACCTTGAGATAACAGATGA
GAAGAAATCTGATTGATGCTGGATGGACCTATCACAATAGGCTGTGGACTTACTTGCCACCAGCTTGTGCATTTA
GTGTGTTCTTTTTACTTTTTGATACTGTGTTGTATGAAACCTTTTGTCTTTGATTTGGTTTTTTGTTTTTGT
TTTTTAGGGGGGAGGGGGGTTTTCCCTCCTTTGCCAGACTTCTCTTTGAACACAAATGCATTAGCCTTGTGGC
TAGAACACCCTCTTCTACCTCTGTCTCCCTCACTTGTTCATATGCTCTGACATGCTAACATTCTTTTGTTCAT
CCCTGTTGCCCCACAGAAACATCCAGAAAAACCGTCAGTGTTCCTTCCTCCCTGATCCTTAGGTTTCTGAAA
TAGGGTTCTGTTACATCCTCTTCGATAGCCTGTTTAAAATGTTTAGAAGGTCTGGAGCTCAAAAATGCGTTCTTC
C

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FIGURE 384

CCACAGATCCATGATGTGCAGTTCTCTGGAGCAGGCGCTGGCTGTGCTGGTCACTACCTTCCACAAGTACTCCTG
CCAAGAGGGCGACAAGTTCAAGCTGAGTAAGGGGAAATGAAGGAATTCTGCACAAGGAGCTGCCCAGCTTTGT
GGGGGAGAAAGTGGATGAGGAGGGGCTGAAGAAGCTGATGGGCAGCCTGGATGAGAACAGTGACCAGCAGGTGGA
CTTCCAGGAGTATGCTGTTTTCTGGCACTCATCACTGTCATGTGCAATGACTTCTTCCAGGGCTGCCCAGACCG
ACCCTGAAGCAGAACTCTTGAATTCTGCCATGGATCTCTTGGGCCCAGGACTGTTGATGCCTTTGAGTTTTGTA
TTCAATAAACTTTTTTTGTCTGTTGAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 385

MMCSSLEQALAVLVTTTFHKYSCQEGDKFKLSKGEMKELLHKELPSFVGEKVDEEGLKKLMGSLDENSDDQVDFQE
YAVFLALITVMCNDFQGCPRP

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FIGURE 386

GCGCCCAGACTTGCTGCCGGGCTGGACGGTCCGCACGGTGCTGGGCAGCAGCGAAAACGCGCTGGGCGTGTGCTC
CGACACCGCAGCGCCCCCTGGCCGCGGTGGACCTCAAGTGGGAGCACAACCCCGCTGTGTTCCCTGGGCCCCGGCTG
CGTGACGCCGCCGCCAGTGGGGCGCTTACCGCGCACTGGCGGGTCCCGCTGCTGACCGCCGGCGCCCCGGC
GCTGGGCTTCGGTGTCAAGGACGAGTATGCGCTGACCACCGCGCGGGGCCAGCTACGCCAAGCTGGGGGACTT
CGTGGCGCGCTGCACCGACGGCTGGGCTGGGAGCGCCAAGCGCTCATGCTCTACGCCTACCGCGCGGGTGACGA
AGAGCACTGCTTCTTCTCGTGGAGGGGCTGTTTCATGCGGGTCCGCGACCGCTCAATATTACGGTGGACCACCT
GGAGTTCGCCGAGGACGACCTCAGCCACTACACCAGGCTGCTGCGGACCATGCCGCGCAAAGGCCGAGTTATCTA
CATCTGCAGCTCCCCTGATGCCCTTCAAGACCTCATGCTCTGGCCCTGGAAGCTGGCTTGTGTGGGGAGGACTA
CGTTTTCTTCCACCTGGATATCTTTGGGCAAAGCCTGCAAGGTGGACAGGGCCCTGCTCCCCGAGGCCCTGGGA
GAGAGGGGATGGGCAGGATGTCAAGTGGCCGCGAGGCTTTTCAAGCTGCCAAAATCATTACATATAAAGACCCAGA
TAATCCCGAGTACTTGGAAATTCCTGAAGCAGTTAAACACCTGGCCATGAGCAGTTCAACTTCACCATGGAGGA
TGGCCTGGTGAACACCATCCAGCATCCTTCCACGACGGGCTCCTGCTCTATATCCAGGCAGTGACGGAGACTCT
GGCAGATGGGGAACTGTTACTGATGGGGAGAACATCACTCAGCGGATGTGGAACCGAAGCTTTCAAGGTGTGAC
AGGATACCTGAAAATTGATAGCAGTGGCGATCGGGAAACAGACTTCTCCCTCTGGGATATGGATCCCGAGAATGG
TGCCCTTCAAGGTTGTACTGAACTACAATGGGACTTCCCAAGAGCTGGTGGCTGTGTGCGGGCGCAAAGTGAAGT
GCCCTTGGGGTACCTCCTCCTGACATCCCCAAATGTGGCTTTGACAACGAAGACCCAGCATGCAACCAAGATCA
CCTTTCACCTTGGAGGTGCTGGCTTTGGTGGGCAGCCTCTCCTTGCTCGGCATTCTGATTGTCTCCTTCTTCAT
ATACAGGAAGATGCAGCTGGAGAAGGAAGTGGCCTCGGAGCTGTGGCGGTGCGCTGGGAGGACGTTGAGCCAG
TAGCCTTGAGAGGCACCTGCGGAGTGCAGGCAGCGGCTGACCTGAGCGGGAGAGGCTCCAATTACGGCTCCCT
GCTAACCACAGAGGGCCAGTTCCAAGTCTTTGCCAAGACAGCATATTATAAGGGCAACCTCGTGGCTGTGAAACG
TGTGAACCGTAAACGCATTGAGCTGACACGAAAAGTCTGTTTGAAGTGAAGCATATGCGGGATGTGAGAAATGA
ACACCTGACCAGGTTTGTGGGAGCCTGCACCGACCCCCCAATATCTGCATCCTCACAGAGTACTGTCCCCGTGG
GAGCCTGCAGGACATTCTGGAGAATGAGAGCATCACCTGGACTGGATGTTCCGGTACTCACTACCAATGACAT
CGTCAAGGGCATGCTGTTTCTACACAATGGGGCTATCTGTTCCCATGGGAACCTCAAGTCATCCAAGTGGTGGT
AGATGGGCGCTTGTGCTCAAGATCACCGACTATGGGCTGGAGAGCTTCAGGGACCTGGACCCAGAGCAAGGACA
CACCGTTTATGCCAAAAGCTGTGGACGGCCCCCTGAGCTCCTGCGAATGGCTTCACCCCTGTGCGGGCTCCCA
GGCTGGTGACGTATACAGCTTTGGGATCATCCTTCAAGGAGATTGCCCTGAGGAGTGGGTCTTCCAGTGAAGG
TTTGACCTGAGCCCCAAGAGATCATCGAGCGGTGACTCGGGGTGAGCAGCCCCCTTCCGGCCCTCCTTGGC
CCTGCAGAGTCACCTGGAGGAGTTGGGGCTGCTCATGCAGCGGTGCTGGGCTGAGGACCCACAGGAGAGGCCACC
ATTCCAGCAGATCCGCTGACGTTGCGCAAATTTAACAGGGAGAACAGCAGCAACATCCTGGACAACCTGCTGTC
CCGCATGGAGCAGTACGCGAACATCTGGAGGAAGTGGTGGAGGAGCGGACCCAGGCATACCTGGAGGAGAGCG
CAAGGCTGAGGCCCTGCTCTACAGATCCTGCCTCACTCAGTGGCTGAGCAGCTGAAGCGTGGGGAGACGGTGCA
GGCCGAAGCCTTTGACAGTGTACCATCTACTTCACTGACATTGTGGGTTTACAGCGCTGTGCGGGAGAGCAC
ACCCATGCAGGTGGTGACCTGCTCAATGACCTGTACACTTGCTTTGATGCTGTATAGACAACCTTTGATGTGTA
CAAGGTGGAGACAATTGGCGATGCCTACATGGTGGTGTGAGGGCTCCCTGTGCGGAACGGGCGGCTACACGCTG
CGAGGTAGCCCGCATGGCCCTGGCACTGCTGGATGCTGTGCGCTCCTTCCGAATCCGCCACCGGCCCCAGGAGCA
GCTGCGCTTGGCATTGGCATCCACACAGGACCTGTGTGCTGGAGTGGTGGGACTGAAGATGCCCCGTTACTG
TCTCTTTGGGGATACAGTCAACACAGCCTCAAGAATGGAGTCTAATGGGGAAGCCCTGAGATCCACTTGTCTTC
TGAGACCAAGGCTGTCTGGAGGAGTTGGTGGTTTTCAGACTGGAGCTTCGAGGGGATGTAGAAATGAAGGGCAA
AGGCAAGGTTTCGACCTACTGGCTCCTTGGGGAGAGGGGAGTAGCACCCGAGGCTGACCTGCCTCCTCTCCTAT
CCCTCCACACCTCCCTACCTGTGCCAGAAGCAACAGAGGTGCCAGGCCTCAGCCTACCCACAGCAGCCCCATC
GCCAAAGGATGGAAGTAATTTGAATAGCTCAGGTGTGCTGACCCAGTGAAGACACCAGATAGGACCTCTGAGAG
GGGACTGGCATGGGGGATCTCAGAGCTTACAGGCTGAGCCAAGCCACGGCCATGCACAGGGACACTCACACAG
GCACACGCACTGCTCTCCACCTGGACTCAGGCCGGGCTGGGCTGTGGATTCTGATCCCTCCCTCCCATGC
TCTCTCCCTCAGCCTTGTACCTGTGACTTACTGGGAGGAGAAAGAGTCACTGAAGGGGAACATGAAAAGAG
ACTAGGTGAAGAGAGGGGAGGGGAGCCACATCTGGGCTGGCCACAATACTGCTCCCCGACCCCTCCACC
CAGCAGTAGACACAGTGCACAGGGGAGAAGAGGGGTGGCGCAGAAGGTTGGGGGCTGTATGCCTTGTCTTAC
CATGAGCAGAGACAATTAATCTTTATTCCAGTG

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FIGURE 387

MPGPRRPAGSRLRLLLLLLLPPLLLLLRGSHAGNLTAVVLPLANTSYPWSWARVGPAVELALAQVKARPDLLPG
WTVRTVLGSSSENALGVCSDTAAPLAAVDLKWEHNPAVFLGPGCVYAAAPVGRFTAHWRVPLLTAGAPALGFGVKD
EYALTTRAGPSYAKLGDFVAALHRRLGWERQALMLYAYRPGDEEHCFLLVEGLFMRVRDRLNITVDHLEFAEDDL
SHYTRLLRTMPRKGRVIYICSSPDAFRTLMLLLEAGLCGEDYVFFHLDIFGQSLQGGQGPAPRRPWERGQDQDV
SARQAFQAAKIIITYKDPDNPEYLEFLKQLKHLAYEQFNFTMEDGLVNTIPASFHDGLLLYIQAVTETLAHGGTGT
DGENITQRMWNRSFQGVGTGYLKIDSSGDRETDFSLWMDMPENGAFRVVLNYNGTSQELVAVSGRKLNWPLGYPPP
DIPKCGFDNEDPACNQDHLSTLEVLALVGSLSLLGILIVSFFIYRKMQLKELASELWRVRWEDVEPSSLERHLR
SAGSRLTLSGRGSNYGSLLTTEGQFQVFAKTAYYKGNLVAVKRVNRKRIELTRKVLFEKHMVDVQNEHLTRFVG
ACTDPPNICILTEYCPRGSQDILENESITLDWMFRYSLTNDIVKGMLFLHNGAICSHGNLKSSNCVVDGRFVLK
ITDYGLESFRDLDPHQHTVYAKKLWTAPELLRMASPPVRSQAGDVYSFGIILQEIALLRSGVFHVEGLDLSPKE
IIERVTRGEQPPFRPSLALQSHLEELGLLMQRCWAEDPQERPPFQQIRLTLRKFNRENSNILDNLLSRMEQYAN
NLEELVEERTQAYLEEKRAEALLYQILPHSVAEQLKRGETVQAEAFDSVTIYFSDIVGFTALSAESTPMQVVT
LNDLYTCFDAVIDNFDVYKVETIGDAYMVVSGLPVRNGRLHACEVARMALALLDAVRSFRIRHRPQEQLRLRIGI
HTGPVCAGVVGLKMPRYCLFGDTVNTASRMESNGEALKIHLSSSETKAVLEEFGGFELELRGDVEMKGKGVRTYW
LLGERGSSTRG

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FIGURE 388

CTGGGTGGCGGTTATGGTGGGGCCAGCGGCATGGGAGGCATCACCGCAGTCATGGTCAACCAGAACCTGCTGAGC
CCCCTTGTCCTGGAGGTGGACCCCAACATCCAGGCCGTGTGACCCAGGAGAAGGAGCCGATCAAGACCCCTAAC
AACAAGTTTGCCTCCTTCATAGACAAGGTACGGTTCCTGGAGCAGCAGAACAAGATGCCGGAGACCAAGTGGAGC
CTCCTGCAGCAGCAGAAGACGGCTCGGAGCAACATGGACAAGTTCGAGAGCTACATCAACAACCTTAGGCAGCAG
CTGGAGATTCTGGGCCAGGAGAAGCTGAAGCTGGAGGCGGAGCTTGGCAACATGCAGGGGCTGGTGGAGGACTTC
AAGAACAAGTATGAGGATGAGATCAATAAGCGTACAGAGATGGAGAATGAATTTGTGCTCACCAAGAAGGATGTG
GATGAAGCTTACATGAACAAGGTAGAGCTGGAGTCTCGCCTGGAAGGGCTTACTGAAGAGATCAGCTTCCTCAGG
CAGCTGTATGAAGAGGAGATCCGGGAGCTGCAGTCCCAGATCTCAGACACATCATTTGCTGAGGTCAAGGCACAGT
ACGAGGACCGCCAGCCGAGCCAGGCTGAGGCTGAGAGCATGTACCAGATCAAGAATGAGGAGCTGCAAGAGCCT
GGCTGGGAAGCACGGGGATGA

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FIGURE 389

TTGCCCCGGGACTAGGAGCTTAAGTGAAGAGGTACGCCTTGTTCCGGTGGAAATCAGCCGTAGCCATGAGTTTCTGC
CGGGGCTAGCCCTAGAGTACGAGCAGGCGGACTTTTCGGTTCCCCGCCCCGCCAGGTGGCGGGGCTACTAGGC
CTCCGGGCATCCCCGGTCTCAAGTAGGCCTCATCTGCCGGCAAGGGCGCCCCGAAACGCGGGAGGCGCCATGTCGC
TGGTTGCTTACGCCAGCAGCGATGAGAGCGAGCCGGATGAGGCTGAGCCCCGAGCCGGAGGAAGAGGAGGCGGTGG
CTCCTACATCTGGGCCCCGCTTAGGGGGCTTGTTCGCTTCTCTCCCTGCGCCCCAAGGGTCCGGCCTTGCTGCCTC
CGCCCCCTCAGATGCTGGCGCCAGCCTTTCCCCCGCCGCTGTTGCTTCCCCCACCACCGGAGACCCAGGCTTC
AGCCTCCTCCCCCTTGCCCTTCGGCCTGGGAGGCTTCCCCCACCCTCCAGGCGTGAGCCCGGCTGAAGCGGCGG
GAGTTGGGGAGGGACTGGGATTGGGGTTGCCCTCGCCCCGAGGCCCTGGCCTCAATCTGCCCCCTCCAATTGGCG
GTGCCGGTCCCCCGCTGGGGCTTCCCAAGCCAAAGAAGAGGAAAGAGCCCGTGAAGATCGCGGCGCGGGAGTTGC
ATAAGGGAGATTGAGATTCTGAGGAAGATGAACCCACAAAGAAGAAAATATCCTTCAGGGATCCAGTGAGGGGA
CTGGTTTGTCTGCCTTGCTTCCCCAACCTAAAAACCTGACTGTGAAAGAGACTAACAGGTTGCTCCTGCCCATG
CCTTCTCCCGCAAACCTCGGATGGCTCCCCGTGATACTAAGCCCTCCAGACTGGCTTCTAAGACCAAGACTTCCT
CTCTTGCCCTGTTGTGGGCACCAACCACTCCGTCGCCCCTCTGCTATCAAGGCTGCTGCCAAGAGTGCTG
CCCTGCAGGTGACAAAGCAGATCACGCAGGAAGAAGACGACAGTGATGAGGAAGTAGCCCCGAAAACTTTTCT
CCCTCCCTGAAAAGGCTGAGCCACCTGGAGTTGAGCCATACCCTTACCCCATCCCCACTGTCCCTGAAGAGCTGC
CTCCAGGCACGGAACCAGAGCCGGCTTTCCAGGACGATGCAGCCATGCCCCCCTTGAATTCAAGATGGCAGCAG
GTTCAAGTGGGGCCCCCTTGGATGCCTAAGCCTGGGGACGACTACAGCTACAATCAGTTTCCACATATGGCGATG
CCAATGCCGCTGGTGCTTATTATCAGGATTATTACAGTGGTGGCTACTATCTTGACAGGACCCGGCCCTGGTCC
CCACCCAGGAAATTGCCCCAGATGCCCTCCTTATCGATGACGAAGCATTTAAGCGGCTGCAGGGCAAGAGGAACC
GAGGGAGAGAAGAAATCAACTTTGTGGAGATCAAAGGTGATGACCAGCTCAGTGGGGCCAGCAATGGATGACTA
AGTCATTGACAGAAGAGAAAACCATGAAGTCATTGAGCAAAAAGAAAGGTGAGCAGCCAACAGGCCAGCAGCGGC
GGAAACACCAGATCACATATCTTATTCATCAGGCCAAGGAGCGGGAGCTGGAAGTGAAGAACACCTGGTCAGAGA
ACAAGCTCAGCCGCCGTGAGACCCAAGCCAAATATGGATTCTAGGGCTCTGGAAGTATTGCTCCCAGGATCTCC
TGCCAGCCCAGCTGGCCTGGCCCCCAGCTTCACCTCTGGGACCCAGCTGCTCTAAGCCCAGGATCTCTTTCCCC
AAGGACCCAGCCCTCGCCTCTGCGAGAATGAACATATTTGATAGATTTTCTTAACAAGTTAGAAAATTCAGCTC
CTTTCTGCTCTGGAGCTAGCAAAGACTTGTGTGATGCCTCCGAAGGGGCTCTGAGTTCTGGGGTGGGAGTTTGC
TCTCTGTCAGGTGTGATAAAATGTTGAACCCTCCCCACCACACTTTTTTTTTTTTAAACCAGGGATGTCTGTT
GAAATAAAACATTGAGTCTGACAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 390

MSLVAYASSDESEPDEAEPEPEEEEEAVAPTSGPALGGLFASLPAPKGPALLPPPPQMLAPAFPPPLLLPPPTGDP
RLQPPPPPLPFGLGGFPPPPGVSPAEEAGVGEGLGLGLPSRGPGLNLPPPIGGAGPPLGLPKPKKRKEPVKIAAP
ELHKGDSSEDEPTKKKTIHQSSSEGTGLSALLPQPKNLTVKETNRLLPHAFSRKPSDGSPDTKPSRLASKTK
TSSLAPVVGTTTTTTPSPSAIKAAAKSAALQVTKQITQEEDDSDEEVAPENFFSLPEKAEPGVEPYPIPTVPE
ELPPGTEPEPAFQDDAANAPLEFKMAAGSSGAPWMPKPGDDYSYNQFSTYGDANAAGAYYQDYSSGGYYPAQDPA
LVPTQEIAPDASFIDDEAFKRLQGKRNRGEEINFVEIKGDDQLSGAQQWMTKSLTEEKTMTKSFSKKKGEOPTGQ
QRRKHQITYLIHQAKERELELKNTWSENKLSRRQTQAKYGF

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FIGURE 391

GAGGAGGAGTGGGGACCGGGCGGGGGGTGGAGGAAGAGGCCTCGCGCAGAGGAGGGAGCAATTGAATTTCAAACA
CAAACAACCTGCACGAGCGCGCACCCACCGCGCCGGAGCCTTGCCCCGATCCGCGCCCCCGCCCGTCCGTGCGGCGC
GCGGGCGGAGACGCCGTGGCCGCGCCGGAGCTCGGGCCGGGGGCCACCATCGAGGCGGGGGCCGCGCGAGGGCCG
GAGCGGAGCGGCGCCGCCACCGCCGCACGCGCAAACCTTGGGCTCGCGCTTCCCGGCCCGGCGCGGAGCCCCGGGGC
GCCCCGAGCCCCGCCATGTCGCGATCCAACGGCAGAAGGAGTACAAATGCGGGGACCTGGTGTTCGCCAAGATG
AAGGGCTACCCACACTGGCCGGCCCGGATTGACGAGATGCCTGAGGCTGCCGTGAAATCAACAGCCAAACAAATAC
CAAGTCTTTTTTTTCGGGACCCACGAGACGGCATTCTGGGCCCCAAAGACCTCTTCCCTTACGAGGAATCCAAG
GAGAAGTTTGGCAAGCCCAACAAGAGGAAGGGTTAGCGAGGGGCTGTGGGAGATCGAGAACAACCCCTACTGTC
AAGGCTTCCGGCTATCAGTCTCCAGAAAAAGAGCTGTGTGAAGAGCCTGAACCAGAGCCCCGAAGCTGCAGAG
GGTGACGGTGATAAGAAGGGGAATGCAGAGGGCAGCAGCGACGAGGAAGGGAAGCTGGTCATTGATGAGCCAGCC
AAGGAGAAGAACGAGAAAGGAGCGTTGAAGAGGAGAGCAGGGGACTTGCTGGAGGACTCTCCTAAACGTCCCAAG
GAGGCAGAAAACCCCTGAAGGAGAGGAGAAGGAGGCAGCCACCTTGGAGGTTGAGAGGCCCCCTTCTATGGAGGTG
GAAAAGAAATAGCACCCCTCTGAGCCCGGCTCTGGCCGGGGGCTCCCCAAGAGGAAGAAGAGGAGGAGGATGAA
GAGGAAGAGGCTACCAAGGAAGATGCTGAGGCCCCAGGCATCAGAGATCATGAGAGCCTGTAGCCACCAATGTTT
CAAGAGGAGCCCCCACCCTGTTCTGCTGCTGTCTGGGTGCTACTGGGGAACTGGCCATGGCCTGCAAACTGGG
AACCCTTTCCACCCCCAACCTGCTCTCCTCTTCTACTACTTTTCCCACTCCAAGCCCAGCCCATGGAGATTGA
CCTGGATGGGGCAGGCCACCTGGCTCTCACCTCTAGGTCCCCATACTCCTATGATCTGAGTCAGAGCCATGTCTT
CTCCCTGGAATGAGTTGAGGCCACTGTGTTCTTCCGCTTGGGAGGGGCAATCCTCAAATGCGGGGTGGGGGCAG
CACAGGAGGGCGGCCTCCTTCTGAGCTCCTGTCCCCTGCTACACCTATTATCCCAGCTGCCTAGATTACAGGGAAA
GTGGGACAGCTTGTAGGGGAGGGGCTCCTTTCCATAAATCCTTGATGATTGACAACACCCATTTTTCTTTTGCC
GACCCCAAGAGTTTTTGGGAGTTGTAGTTAATCATCAAGAGAATTTGGGGCTTCCAAGTTGTTCCGGGCCAAGGACC
TGAGACCTGAAGGGTTGACTTTACCCATTTGGGTGGGAGTGTGAGCATCTGTCCCCCTTTAGATCTCTGAAGCC
ACAAATAGGATGCTTGGGAAGACTCCTAGCTGTCTTTTTCTCTCCACACAGTGCTCAAGGCCAGCTTATAGTC
ATATATATCACCCAGACATAAAGGAAAAGACACATTTTTTAGGAAATGTTTTAATAAAAGAAAATTACAAAAAA
AAATTTTAAAGACCCCTAACCCCTTGTGTGCTCTCCATTCTGCTCCTTCCCCATCGTTGCCCCATTTCTGAGGT
GCACTGGGAGGCTCCCTTCTATTTGGGGCTTGATGACTTCTTTTTGTAGCTGGGGCTTTGATGTTCTCTCCAG
TGTCATTTCTCATCCACATACCTGACCTGGCCCCCTCAGTGTTGTCACCAGATCTGATTTGTAACCCACTGAGA
GGACAGAGAGAAATAAGTGCCCTCTCCACCCTCTTCTACTGGTCTCTCTATGCCTCTCTACAGTCTCGTCTCT
TTTACCCTGGCCCCCTCTCCCTTGGGCTCTGATGAAAAATTGCTGACTGTAGCTTTGGAAGTTTAGCTCTGAGAAC
CGTAGATGATTTAGTTCTAGGAAAAATAAACCCGTTGATTACT

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FIGURE 392

AGCTTTGGGGTTGTCCCTGGACTTGTCTTGGTTCCAGAACCTGACGACCCGGCGACGGCGACGTCTCTTTTGACT
AAAAGACAGTGTCAGTGCTCCAGCCTAGGAGTCTACGGGGACCGCTCCCGCGCCGCCACCATGCCCCAACTTCT
CTGGCAACTGGAAAATCATCCGATCGGAAAACCTCGAGGAATTGCTCAAAGTGCTGGGGGTGAATGTGATGCTGA
GGAAGATTGCTGTGGCTGCAGCGTCCAAGCCAGCAGTGGAGATCAAACAGGAGGGAGACACTTTCTACATCAAAA
CCTCCACCACCGTSCGCACCACAGAGATTAACTTCAAGGTTGGGGAGGAGTTTGAGGAGCAGACTGTGGATGGGA
GGCCCTGTAAGAGCCTGGTGAAATGGGAGAGTGAGAATAAAATGGTCTGTGAGCAGAAGCTCCTGAAGGGAGAGG
GCCCCAAGACCTCGTGGACCAGAGAACTGACCAACGATGGGGAACCTGATCCTGACCATGACGGCGGATGACGTTG
TGTGCACCAGGGTCTACGTCCGAGAGTGAAGTGGCCACAGGTAGAACCGCGGCCGAAGCCCACCACTGGCCATGCT
CACCGCCCTGCTTCACTGCCCCCTCCGTCCACCCCTCCTTCTAGGATAGCGCTCCCCCTTACCCCACTCACTTC
TGGGGGTCACTGGGATGCCTCTTGCAGGGTCTTGCTTTCTTTGACCTCTTCTCTCCTCCCCCTACACCAACAAAGA
GGAATGGCTGCAAGAGCCCAGATCACCCATTCCGGGTTCACTCCCCGCTCCCCAAGTCAGCAGTCTTAGCCCCA
AACCAGCCCAGAGCAGGGTCTCTCTAAAGGGGACTTGAGGGCCTGAGCAGGAAAGACTGGCCCTCTAGCTTCTAC
CCTTTGTCCCTGTAGCCTATACAGTTTAGAATATTTATTTGTTAATTTTATTAAATGCTTTAAAAAA

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FIGURE 393

MPNFSGNWKIIRSENFELLKVLGVNVMLRKIAVAAASKPAVEIKQEGDTFYIKTSTTVRTTEINFKVGEEFEEQ
TVDGRPCKSLVKWESENKMOVCEQKLLKGEGPKTSWTRELTNDGELILTMTADDVVCTRYYVRE

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FIGURE 394

GCAGTCTCCGCCGCAGTCTCAGCTGCAGCTGCAGGACTGAGCCGTGCACCCGGAGGAGACCCCGGAGGAGGCGA
CAAACCTTCGCAGTGCCGCGACCCAACCCAGCCCTGGGTAGCCTGCAGCATGGCCCACTGTTCTTCCCTGCCCTGCT
GGCAGCCCTGGTCTGGCCAGGCTCCTGCAGCTTTAGCAGATGTTCTGGAAGGAGACAGCTCAGAGGACCGCGC
TTTTCGCGTGCGCATCGCGGGCGACGCGCCACTGCAGGGCGTGTCTGGCGGGCGCCCTCACCATCCCTTGCCACGT
CCACTACCTGCGGCCACCGCCGAGCCGCGGGCTGTGCTGGGCTCTCCGCGGGTCAAGTGGACTTTCTGTCCCCG
GGGCCGGGAGGCAGAGGTGCTGGTGGCGCGGGAGTGCGCGTCAAGGTGAACGAGGCCTACCGGTTCCGCGTGGC
ACTGCTGCGTACCCAGCGTCTGCTACCCGACGTCTCCCTGGCGCTGAGCGAGCTGCGCCCCAACGACTCGGGTAT
CTATCGCTGTGAGGTCCAGCACGGCATCGATGACAGCAGCGACGCTGTGGAGGTCAAGGTCAAAGGGGTCTGCTT
TCTTACCGAGAGGGCTCTGCCCCCTATGCTTTCTCTTTCTGGGGCCAGGAGGCCTGTGCCCCGATTGGAGC
CCACATCGCCACCCCGGAGCAGCTCTATGCCGCTACCTTGGGGGCTATGAGCAATGTGATGCTGGCTGGCTGTC
GGATCAGACCGTGAGGTATCCCATCCAGACCCACGAGAGGCCTGTTACGGAGACATGGATGGCTTCCCCGGGGT
CCGGAACATATGGTGTGGTGGACCCGGATGACCTCTATGATGTGTACTGTTATGCTGAAGACCTAAATGGAGAAT
GTTCTGGGTGACCTCCAGAGAAGCTGACATTGGAGGAAGCACGGGCGTACTGCCAGGAGCGGGGTGCAGAGAT
TGCCACCACGGGCCAACTGTATGCAGCCTGGGATGGTGGCCTGGACCACTGCAGCCAGGGTGGCTAGCTGATGG
CAGTGTGCGCTACCCCATCGTACACCCAGCCAGCGCTGTGGTGGGGGCTTGCTGGTGTCAAGACTCTCTTCTCT
CTTCCCCAACCAAGACTGGCTTCCCCAATAAGCACAGCCGCTTCAACGTCTACTGCTTCCGAGACTCGGCCAGCC
TTCTGCCATCCCTGAGGCCTCCAACCCAGCCTCCAACCCAGCCTCTGATGGACTAGAGGCTATCGTCACAGTGAC
AGAGACCTGGAGGAAGTGCAGCTGCCTCAGGAAGCCACAGAGAGTGAATCCCGTGGGGCCATCTACTCCATCCC
CATCATGGAGGACGGAGGAGGTGGAAGCTCCACTCCAGAAGACCCAGCAGAGGCCCTAGGACGCTCCTAGAATT
TGAAACACAATCCATGGTACCGCCCCAGGGGTCTCAGAAGAGGAAGGTAAGGCATTGGAGGAAGAAGAGAAATA
TGAAGATGAAGAAGAGAAAGAGGAGGAAGAAGAAGAGGAGGAGGTGGAGGATGAGGCTCTGTGGGCATGGCCAG
CGAGCTCAGCAGCCCGGGCCCTGAGGCTCTCTCCCCACTGAGCCAGCAGCCAGGAGAAGTCACTCTCCAGGC
GCCAGCAAGGGCAGTCTGTCAGCCTGGTGCATCACCCTTCTGATGGAGAGTCAGAAGCTTCCAGGCCTCCAAG
GGTCCATGGACCACCTACTGAGACTCTGCCCCACTCCAGGGAGAGGAACCTAGCATCCCCATCACCTTCCACTCT
GGTTGAGGCAAGAGAGGTGGGGGAGGCAACTGGTGGTCTGAGCTATCTGGGGTCCCTCGAGGAGAGAGCGAGGA
GACAGGAAGCTCCGAGGGTGGCCCTTCCCTGCTTCCAGCCACACGGGGCCCTGAGGGTACCAGGGAGCTGGAGGC
CCCCTCTGAAGATAATTCTGGAAGAACTGCCCCAGCAGGGACCTCAGTGCAGGCCAGCCAGTGTGCCCCACTGA
CAGCGCCAGCCGAGGTGGAGTGGCCGTGGTCCCCGCATCAGGTGACTGTGTCCCCAGCCCTGCCACAATGGTGG
GACATGCTTGGAGGAGGAGGAAGGGTCCGCTGCCTATGTCTGCCTGGCTATGGGGGGACCTGTGCGATGTTGG
CCTCCGCTTCTGCAACCCCGGCTGGGACGCCTTCCAGGGCGCTGCTACAAGCACTTTTCCACACGAAGGAGCTG
GGAGGAGGCAGAGACCCAGTGCCGGATGTACGGCGCGCATCTGGCCAGCATCAGCACACCCGAGGAACAGGACTT
CATCAACAACCGGTACCGGGAGTACCAGTGGATCGGACTCAACGACAGGACCATCGAAGGCGACTTCTTGTGGTC
GGATGGCGTCCCCCTGCTCTATGAGAACTGGAACCTGGGCAGCCTGACAGCTACTTCTGTCTGGAGAGAACTG
CGTGGTCAATGGTGTGGCATGATCAGGGACAATGGAGTGACGTGCCCTGCAACTACCACCTGTCTACACCTGCAA
GATGGGGCTGGTGTCTGTGGGCCGCCACCGGAGCTGCCCTGGCTCAAGTGTTCGGCCGCCACGGCTGCGCTA
TGAGGTGGACACTGTGCTTCGCTACCGGTGCCGGGAAGGACTGGCCAGCGCAATCTGCCGCTGATCCGATGCCA
AGAGAACGGTCGTTGGGAGGCCCCCAGATCTCTGTGTGCCAGAAAGACCTGCCCGAGCTTGCACCCAGAGGA
GGACCCAGAAGGACGTGAGGGGAGGCTACTGGGACGCTGGAAGGCGCTGTTGATCCCCCTTCCAGCCCCATGCC
AGGTCCCTAGGGGGCAAGGCCTTGAACACTGCCGGCCACAGCAGTGCCTGTCAACCAATTTTCCCTCACACCC
TGCGCTCCCGCCACCACAGGAAGTGACAACATGACGAGGGGTGGTGGTGGAGTCCAGGTGACAGTTCTTGAAGGG
GCTTCTGGGAAATACCTAGGAGGCTCCAGCCCAGCCAGGCCCTCTCCCCCTACCCCTGGGCACAGATCTTCCAT
CAGGGCCGGAGTAAATCCCTAAGTGCTCAACTGCCCTCTCCCTGGCAGCCATCTTGTCCCTCTATTCTCTAG
GGAGCACTGTGCCACTCTTTCTGGGTTTCCAAGGGAATGGGCTTGAGGATGGAGTGTCTGTAAAATCAACAG
GAAATAAACTGTGTATGAGCCCAGGCAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 395

MAQLFLPLLAALVLAQAPAAADVLEGDSSDRAFRVRIAGDAPLQGVLGALTIPCHVHYLRPPPSRRAVLGSP
RVKWTFLSRGREAEVLVARGVRVKVNEAYRFRVALPAYPASLTDVSLALSELRPNDSGIYRCEVQHIGDDSSDAV
EVKVKGVVFLYREGSARYAFSFSGAQEACARIGAHIAITPEQLYAAYLGGEQCDAGWLSAQTVRYPIQTPREACY
GDMGDFPGVRNYGVVDPDDLVDVYCYAEDLNGELFLGDPPEKLTLEEARAYCQERGAEIATTGQLYAANDGGLDH
CSPGWLADGSVRYPVITPSQRCGGGLPGVKTLFLFPNQTGFPNKHSRNFVYCFRDSAQPSAIPASNPASNPASD
GLEAIVTVTETLEELQLPQEATESESRGAIYSIPIMEDGGGGSSTPEDPAEAPRTLLEFETQSMVPPTGFSSEEG
KALEEEKEYEDEEEKEEEEEVEDEALWAWPSELSSPGPEASLPTEPAAQEKSLSQAPARAVLQPGASPLPDG
ESEASRPPRVHGPPTETLPTPRERNLASPSSTLVEAREVGEATGGPELSGVPRGESEETGSSEGAAPSLPATRA
PEGTRELEAPSEDNSGRTAPAGTSVQAQPVLPDTSASRGGVAVVPASGDCVPSCHNGGTCLLEEEGVRCCLPG
YGGDLCDVGLRFCNPGWDAFQGACYKHFSTRRSWEEAETQCRMYGAHLASISTPEEQDFINNRYREYQWIGLNDR
TIEGDFLWSDGVPLLYENWNPGQPDYFLSGENCVMVWHDQGWSDVPCNYHLSYTCMKGLVSCGPPPELPLAQ
VFGRPRLRYEVDTVLRYRCREGLAQRNLPILRCQENGRWEAPQISCVFRRPARALHPEEDPEGRQGRLLGRWKAL
LIPPSSPMGP

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FIGURE 396

CTCCTCACAGAAGCCTGGAGCTGGGCATCCAAGAAGAAGCAGCCTCATTGTTTTCTGGTGTATCGTAGGTGGC
CACCTATGGCTTTTGGGAATGTAAAAAGGGCAGCTCTCTGGCATGTTCCTGACTGAGGATCTCATAACATTTAAC
TTGAGGAACTTCCTCCTTTTCCAGCTTTGGGAGTCAAGCTTCTCACCTGGGGCGGGTGGGTTCTGCACCACCCTC
CCACCCTCCTTCCTCCGTGTGGACGATAGAGCCACATCCAGCACCACGGACAGCTCCCGGGCGCCTTCATCTCCT
CGTCCTCCAGGCAGCACAAAGCCATTGTGGAATCTCCACCAGGTGTACAGAACGGTGCCTCTGCGTCCTGCCACTC
AGGACCTCTCAAGTCCCCGATGTGATGGCTCCTCAGCATGATCAGGAGAAATTCCATGATCTTGCTTATTCCTGT
CTTGGGAAGTCCTTCTCCATGTCTAACCAAGATCTATATGGCTATAGCACCAGCTCTTTGGCTCTTGGCTTGGCA
TGGCTAAGTTGGGAGACCAAAAAGAAGAATGTACTTCATCTGGTTGGGCTGGATTCCCTCTTGATAAAGCCTTCCCA
GTTGACTGAAAGATGAGGCTAGGCTCTAGCAAGTTGAAGTCAAACCAGCTCCTTCAAGAAGCTTTGAGCAGAATG
AAGTGGGGAGGACCCAGCTTCCAGCCCAGGAAGCCCACTGTACCTGGAGCCATCTGGGATAAGACTTTGACCCAT
GACTCCCATATCCACAGCCTGTCCATCCTAGCCCATCCCAGTTTATCCTGTATCATTTGAGCTGGGATTCCCACA
TCCTCTGAGTTGGAAGTCCCATCTCAAGTCTTCAATAAAGACTCTTGAATATTG

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FIGURE 397

MFLTEDLITFNLRNFLLFQLWESSFSPGAGGFCTTLPPSFLRVDDRATSSTTDSSRAPSSPRPPGSTSHCGISTR
CTERCLCVLPLRTSQVPDVMAPQHDQEKFHDLAYSCLGKSFMSNQDLYGYSTSSLALGLAWLSWETKKKNVLHL
VGLDSL

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FIGURE 398

TTGCGTAGGGGGCGGGACTAAGGCTGTCAATTGGTCTGTTTTGTGCCGATCAATGAGATGGGTGCGGTGATTGG
CGACTACCTTGAGAGTAGCGGGTTGAGGTGTAAGCCCTGAGGAGGCAGCGTTTTCTGGGCTTCTGTCTGGTTCTC
TCTCTCCAGAAGGTTCTGCCGGTTCCCCAGCTCTGGGTACCCGGCTCTGCATCGCGTCGCCATGATGGGCCATC
GTCCAGTGCTCGTGCTCAGCCAGAACACAAAGCGTGAATCCGGAAGAAAAGTTCAATCTGGAAACATCAATGCTG
CCAAGACTATTGCAGATATCATCCGAACATGTTTGGGACCCAAGTCCATGATGAAGATGCTTTTGGACCCAATGG
GAGGCATTGTGATGACCAATGATGGCAATGCCATTCTTCGAGAGATTCAAGTCCAGCATCCAGCGGCCAAGTCCA
TGATCGAAATTAGCCGGACCCAGGATGAAGAGGTTGGAGATGGGACCACATCAGTAATTATTCTTGAGGGGAAA
TGCTGTCTGTAGCTGAGCACTTCCTGGAGCAGCAGATGCACCCAACAGTGGTGATCAGTGCTTACCGCAAGGCAT
TGGATGATATGATCAGCACCCCTAAAGAAAATAAGTATCCAGTCGACATCAGTGACAGTGATATGATGCTGAACA
TCATCAACAGCTCTATTACTACCAAGCCATCAGTCGGTGGTCATCTTTGGCTTGCAACATTGCCCTGGATGCTG
TCAAGATGGTACAGTTTGAGGAGAATGGTCGGAAAGAGATTGACATAAAAAAATATGCAAGAGTGGAAAAGATAC
CTGGAGGCATCATTGAAGACTCCTGTGTCTTGCGTGGAGTCATGATTAAACAAGGATGTGACCCATCCACGTATGC
GGCGCTATATCAAGAACCCTCGCATTGTGTCTGCTGGATTCTTCTCTGGAATACAAGAAAGGAGAAAGCCAGACTG
ACATTGAGATTACAGAGAGGAGGACTTCACCCGAATTCTCCAGATGGAGGAAGAGTACATCCAGCAGCTCTGTG
AGGACATTATCCAACCTGAAGCCCGATGTGGTCATCACTGAAAAGGGCATCTCAGATTTAGCTCAGCACTACCTTA
TGCGGGCCAATATCACAGCCATCCGCAGAGTCCGGAAGACAGACAATAATCGCATTGCTAGAGCCTGTGGGGCCC
GGATAGTCAGCCGACCAGAGGAAGTGAAGAGAAGATGATGTTGGAACAGGAGCAGGCCTGTTGGAATCAAGAAAA
TTGGAGATGAATACTTTTACTTTTCACTACTGACTGCAAAGACCCCAAGGCCTGCACCATTCTCCTCCGGGGGGCTA
GCAAAGAGATTCTCTCGGAAGTAGAACGCAACCTCCAGGATGCCATGCAAGTGTGTCGCAATGTTCTCCTGGACC
CTCAGCTGGTGCCAGGGGGTGGGGCCTCCGAGATGGCTGTGGCCCATGCCTTGACAGAAAAATCCAAGGCCATGA
CTGGTGTGGAACAATGGCCATACAGGGCTGTGCCCAGGCCCTAGAGGTCAATCCTCGTACCCTGATCCAGAACT
GTGGGGCCAGCACCATCCGTCTACTTACCTCCCTTCGGGGCAAGCACACCCAGGAGAACTGTGAGACCTGGGGTG
TAAATGGTGAGACGGGTACTTTGGTGGACATGAAGGAAGTGGGCATATGGGAGCCATTGGCTGTGAAGCTGCAGA
CTTATAAGACAGCAGTGGAGACGGCAGTTCTGCTACTGCGAATTGATGACATCGTTTCAGGCCACAAAAAGAAAG
GCGATGACCAGAGCCGGCAAGGCGGGGCTCCTGATGCTGGCCAGGAGTGAGTGCTAGGCAAGGCTACTTCAATGC
ACAGAACCAGCAGAGTCTCCCTTTTCTGAGCCAGAGTGCCAGGAACACTGTGGACGTCTTTGTTTCAAGGGGA
TCAGGTGGGGGGCAGCCCCCAGTCCCTTTCTGTCCCAGCTCAGTTTTCCAAAAGACACTGACATGTAATTCTTC
TCTATTGTAAGGTTTCCATTTAGTTTGCTTCCGATGATTAATCTAAGTCATTTG

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FIGURE 399

MGHRPVLVLSQNTKRESGRKVQSGNINAAKTIADIIRTCLGPKSMMKMLLDPMGGIVMTNDGNAILREIQVQHPA
AKSMIEISRTQDEEVGDGTTSVIILAGEMLSVAEHFLEQQMHPTVVISAYRKALDDMISTLKKISIPVDISDSM
MLNIINSSITTKAISRWSSLACNIALDAVKMVQFEENGRKEIDIKKYARVEKIPGGIIEDSCVLRGVMINKDVTH
PRMRRYIKNPRIVLLDSSLEYKKGESQTDIEITREEDFTRILQMEEYIQQLCEDI IQLKPDVVITEKGISDLAQ
HYLMRANITAIRVRKTDNNRIARACGARIVSRPEELREDDVGTGAGLEIKKIGDEYFTFITDCKDPKACTILL
RGASKEILSEVERNLDAMQVCRNVLLDPQLVPGGGASEMAVAHALTEKSKAMTGVEQWPYRAVAQALEVIPRTL
IQNCGASTIRLLTSLRAKHTQENCETWGVNGETGTLVDMKELGIWEPLAVKLQTYKTAVETAVLLLRIDDIVSGH
KKKGDDQSRQGGAPDAGQE

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FIGURE 400

GAATTGCGGCCGTATGCGCGGCTCTGTGGAGTGACCTGGGGTTGGGGGCACTGTGCCCCAGCCCCCTGCTCCT
TTGGACTCTACTTCTGTTTGCAGCCCCATTTGGCCTGCTGGGGGAGAAGACCCGCCAGGTGTCTCTGGAGGTCAT
CCCTAACTGGCTGGGCCCCCTGCAGAACCTGCTTCATATACGGGCAGTGGGCACCAATTCCACACTGCATATGT
GTGGAGCAGCCTGGGGCCTCTGGCAGTGGTAATGGTGGCCACCAACACCCCCACAGCACCCCTGAGCGTCAACTG
GAGCCTCCTGCTATCCCCTGAGCCCGATGGGGGCCTGATGGTGCTCCCTAAGGACAGCATTCACTTTTCTTCTGC
CCTTGTTTTTACCAGGCTGCTTGAGTTTGACAGCACCAACGTGTCCGATACGGCAGCAAAGCCTTTGGGAAGACC
ATATCCTCCATACTCCTTGGCCGATTTCTTCTTGGAAACAACATCACTGATTCACTGGATCCTGCCACCCTGAGTGC
CACATTTCAAGGCCACCCCATGAACGACCCTACCAGGACTTTTGCCCAATGGCAGCCTGGCCTTCAGGGTCCAGGC
CTTTTCCAGGTCCAGCCGACCAGCCCAACCCCTCGCCTCCTGCACACAGCAGACACCTGTCAGCTAGAGGTGGC
CCTGATTGGAGCCTCTCCCCGGGGAAACCGTTCCCTGTTGGGCTGGAGGTAGCCACATTGGGCCAGGGCCCTGA
CTGCCCCCTCAATGCAGGAGCAGCACTCCATCGACGATGAATATGCACCGGCCGTCTTCCAGTTGGACCAGCTACT
GTGGGGCTCCCTCCCATCAGGCTTTGCACAGTGGCGACCACTGGCTTACTCCCAGAAGCCGGGGGGCCGAGAATC
AGCCCTGCCCTGCCAAGCTTCCCTCTTCATCCTGCCCTAGCATACTCTCTTCCCCAGTCACCCATTGTCCGAGC
CTTCTTTGGGTCCCAGAATAACTTCTGTGCCTTCAATCTGACGTTCCGGGGCTTCCACAGGCCCTGGCTATTGGGA
CCAACACTACCTCAGCTGGTCGATGCTCCTGGGTGTGGGCTTCCCTCCAGTGGACGGCTTGTCCCCACTAGTCCT
GGGCATCATGGCAGTGGCCCTGGGTGCCCCAGGGCTCATGCTGCTAGGGGGCGGCTTGTTCTGCTGCTGCACCA
CAAGAAGTACTCAGAGTACCAGTCCATAAAATTAAGGCCGCTCTCTGGAGGGAAGGACATTACTGAACCTGTCTT
GCTGTGCCTCGAACTCTGGAGGTGGAGCATCAAGTTCCAGCCGGCCCCCTTCACTCCCCATCTTGCTTTTCTG
TGGAACCTCAGAGGCCAGCCTCGACTTCCTGGAGACCCCCAGGTGGGGCTTCCTTCATACTTTGTGGGGGACTT
TGGAGGCGGGCAGGGGACAGGGCTATTGATAAGGTCCCCCTGGTGTGGCTTCTTGATCTCCACACATTTCCCT
TGGATGGGACTTGCAAGCCTAAATGAGAGGCATTCTGACTGGTTGGCTGCCCTGGAAGGCAAGAAAATAGATTTA
TTTTTTTTC

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FIGURE 401

MRGSVECTWGWGHCAPSPLLLWTLLLF AAPFGLLG EKTRQVSLEVIPNWLGPLQNL LHIRAVGTNSTLHYVWSSL
GPLAVVMVATNTPHSTLSVNWSLLLSPEPDGGLMVLPKDSIQFSSALVFTR LLEFDSTNVSDTA AKPLGRPYPPY
SLADFSWNNITDSLDPATLSATFQGHMNDPTRTFANGSLAFRVQAFSRSSRPAQPPRL LHTADTCQLEVALIGA
SPRGNRSLFGLEVATLGQGPDCPSMQEQHSIDDEYAPAVFQLDQLLWGS LPSGFAQWRPVAYSQKPGGRESALPC
QASPLHPALAYSLPQSPIVRAFFGSQNNFCAFNLTFGASTGPGYWDQH YLSWSMLLGVGFPPVDGLSPLVLGIMA
VALGAPGLMLLGGGLVLLLHHKKYSEYQSIN

[illegible]

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FIGURE 403

MTEQETLALLEVKRSDSPEKSSPQALVPNGRQPEGEGGAESPGAESLRVGSSAGSPTAIEGAEDGLDSTVSEAT
LPWGTGPQPSAPFPDPPGWRDIEPEPPESEPLTKLEELPEDDANLLPEKAARAFVPIDLQCIERQPQEDLIVRCE
AGEGECRTFMPPRVTHPDPTERKWAEAVVRPPGCSCGGCGSCGDREWLRAVASVGAALILFPCLLYGAYAFLPFD
VPRLPMTSSRLIYTLRCGVFATFPIVLGILVYGLSLLCFSALRPFGEPRREVEIHRRYVAQSVQLFIFYFFNLAV
LSTYLPQDTLKLLPLLTGLFAVSRLIYWLTFAVGRSFRGFGYGLTFLPLLSMLMWNLYYMFVVEPERMLTATESR
LDYPDHARSASDYRPRPWG

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FIGURE 404

ACTCAGTGTTTCGCGGGAGCCGCACCTACACCAGCCAACCCAGATCCCGAGGTCCGACAGCGCCCGGCCAGATCC
CCACGCCTGCCAGGAGCAAGCCGAGAGCCAGCCGGCCGGCGCACTCCGACTCCGAGCAGTCTCTGTCCTTCGACC
CGAGCCCCGCGCCCTTTCCGGGACCCCTGCCCCGCGGGCAGCGCTGCCAACCTGCCGGCCATGGAGACCCCGTCC
CAGCGGCGCGCCACCCGCAGCGGGGCGCAGGCCAGCTCCACTCCGCTGTGCCCCACCCGCATCACC CGCTGCAG
GAGAAGGAGGACCTGCAGGAGCTCAATGATCGCTTGCGGTCTACATCGACCGTGTGCGCTCGCTGGAAACGGAG
AACGCAGGGCTGCGCCTTCGCATCACCAGTCTGAAGAGGTGGTCAGCCGCGAGGTGTCCGGCATCAAGGCCGCC
TACGAGGCCGAGCTCGGGGATGCCCCGAAGACCCCTTGA CT CAGTAGCCAAGGAGCGCGCCCGCCTGCAGCTGGAG
CTGAGCAAAGTGCGTGAGGAGTTTAAGGAGCTGAAAGCGCGCAATACCAAGAAGGAGGGTGACCTGATAGCTGCT
CAGGCTCGCTGAAGGACCTGGAGGCTCTGCTGAACTCCAAGGAGGCCGCACTGAGCACTGCTCTCAGTGAGAAG
CGCACGCTGGAGGGCGAGCTGCATGATCTGCGGGGCCAGGTGGCCAAGCTTGAGGCAGCCCTAGGTGAGGCCAAG
AAGCAACTTCAGGATGAGATGCTGCGGCGGGTGGATGCTGAGAACAGGCTGCAGACCATGAAGGAGGAAGTGGAC
TTCCAGAAGAACATCTACAGTGAGGAGCTGCGTGAGACCAAGCGCCGTCATGAGACCCGACTGGTGGAGATTGAC
AATGGGAAGCAGCGTGAGTTTGAGAGCCGGCTGGCGGATGCGCTGCAGGAAGTGCAGGGCCAGCATGAGGACCAG
GTGGAGCAGTATAAGAAGGAGCTGGAGAAGACTTATTCTGCCAAGCTGGACAATGCCAGGCAGTCTGCTGAGAGG
AACAGCAACCTGGTGGGGGCTGCCCCAGGAGGCTGCAGCAGTCGCGCATCCGCATCGACAGCCTCTCTGCCCAG
CTCAGCCAGCTCCAGAAGCAGCTGGCAGCCAAGGAGGCGAAGCTTCGAGACCTGGAGGACTCACTGGCCCGTGAG
CGGGACACCAGCCGGCGGCTGCTGGCGGAAAAGGAGCGGGAGATGGCCGAGATGCGGGCAAGGATGCAGCAGCAG
CTGGACGAGTACCAGGAGCTTCTGGACATCAAGCTGGCCCTGGACATGGAGATCCACGCCTACCGCAAGCTCTTG
GAGGGCGAGGAGGAGAGGCTACGCCTGTCCCCAGCCCTACCTCGCAGCGCAGCCGTGGCCGTGCTTCTCTCAC
TCATCCCAGACACAGGGTGGGGGCAGCGTCACCAAAAAGCGCAAAGTGGAGTCCACTGAGAGCCGCAGCAGCTTC
TCACAGCACGCACGCACTAGCGGGCGCGTGGCCGTGGAGGAGGTGGATGAGGAGGGCAAGTTTGTCCGGCTGCGC
AACAAGTCCAATGAGGACCAGTCCATGGGCAATTGGCAGATCAAGCGCCAGAATGGAGATGATCCCTTGCTGACT
TACCGGTTCCACCAAAGTTACCCCTGAAGGCTGGGCAGGTGGTGACGATCTGGGCTGCAGGAGCTGGGGCCACC
CACAGCCCCCTACCGACCTGGTGTGGAAGGCACAGAACACCTGGGGCTGCGGGAACAGCCTGCGTACGGCTCTC
ATCAACTCCACTGGGGAAGAAGTGCCATGCGCAAGCTGGTGCGCTCAGTGACTGTGGTTGAGGACGACGAGGAT
GAGGATGGAGATGACCTGCTCCATCACCACCATGTGAGTGGTAGCCGCCGCTGAGGCCGAGCCTGCACTGGGGCC
ACCCAGCCAGGCCTGGGGGCAGCCTCTCCCCAGCCTCCCGTGCCAAAAATCTTTTATTAAAGAATGTTTGGAA
CTTT

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FIGURE 405

METPSQRRATRSGAQASSTPLSPTRITRLQEKEDLQELNDR LAVYIDRVRSLETENAGLRLRITESEEVVSREVS
GIKAAYEAE LGDARKTLD SVAKERARLQLELSKVREEFKELKARNTKKEGDLIAAQARLKDLEALLNSKEAALST
ALSEKRTLEGELHDLRGQVAKLEAALGEAKKQLQDEMLRRVDAENRLQTMKEELDFQKNYSEELRETKRRHETR
LVEIDNGKQREFESRLADALQELRAQHEDQVEQYKKELEKTYSAKLDNARQSAERNNSLVGAAHEELQQSRIRID
SLSAQLSQLQKQLAAKEAKLRDLED SLARERDTSRLLAEKEREMAEMRARMQQQLDEYQELLDIKLALDMEIHA
YRKLEGEERLRLSPSPTSQRSRGRASSHSSQTQGGGSVTKKRKLESTESRSSFSQHARTSGRVAVEEVDEEGK
FVRLRNKSNE DQSMGNWQIKRQNGDDPLLTYRFPFKFTLKAGQVVTIWAAGAGATHSPPTDLVWKAQNTWGCNS
LRTALINSTGEEVAMRKLVR SVTVVEDDEDEDGDDLHHHHVSGSRR

FIGURE 406

CGCGACGACGCCCCAGCCCCCCACCGCCCCCAAAGGGGCGAGCGACGCCAAGCTCTGCGCTCTCTACAAAGAGGCC
GAGTCTGCGCCTTGAGGGGCGAGCAGCAACACCACGGAGTGTGTTCCCGTGCCACCTCCGAGCACGTGGCCGAGATC
TGTGGGCGAGGCAAGGCTGCAAGATTAAAGCCTTGAGGGGCCAAGACCAACACCTACATCAAGACACCGGTGAGGGGG
GAGGAACCAAGTGTTCATGGTGACAGGGCGACGGGAGGACGTGGCCACAGCCCGCGGGGAAATCATCTCAGCAGCG
GAGCACTTCTCCATGATCCGTGCCCTCCGCAACAAGTCAGGCGCCGCCCTTTGGTGTGGCTCCTGCTCTGCCCGGC
CAGGTGACCATCCGTGTGCGGGTGCCCTACCGCTGGTGGGGCTGGTGGTGGGCCCCAAAGGGGCAACCATCAAG
CGCATCCAGCAGCAAACCAACACATACATTATCACACCAAGCCGTGACCGCGACCCCGTGTTCGAGATCACGGGT
GCCCCAGGCAACGTGGAGCGTGC GCGGAGGAGATCGAGACGCACATCGCGGTGCGCACTGGCAAGATCCTCGAG
TACAACAATGAAAACGACTTCTTGGCGGGGAGCCCCGACGCAGCAATCGATAGCCGCTACTCCGACGCCTGCGCG
GTGCACCAGCCCGCTGCAAGCCCCCTCTCCACCTTCCGGCAGAACAGCCTGGGCTGCATCGGCGAGTGC GGAGTG
GACTCTGGCTTTGAGGCCCCACGCCCTGGGTGAGCAGGGCGGGGACTTTGGCTACGGCGGGTACCTCTTTCCGGGC
TATGGCGTGGGCAAGCAGGATGTGTACTACGGCGTGGCCGAGACTAGCCCCCGCTGTGGGCGGGCCAGGAGAAC
GCCACGCCCCACCTCCGTGCTCTTCTCCTCTGCCTCCTCCTCCTCCTCCTTCCGCCAAGGCCCCGCGCTGGGCCC
CCGGGCGCACACCGCTCCCCCTGCCACTTCCGCGGGACCCGAGCTGGCCGGA CTCCCGAGGCGCCCCCGGGAGAG
CCGCTCCAGGGCTTCTCTAAACTTGGTGGGGGCGGCC TCGGGAGCCCCGGCGCGGGCGGGATTGCATGGTCTGC
TTTGAGAGCGAAGTGACTGCGGCCCTTGTGCCCTGCGGACACAACCGTGTCTCATGGAGTGTGCAGTACGCATC
TGGGAGAGGACGGACCCAGAGTGTCCGCTCTGCCACATCACAGCCACGCAAGCCATCCGAATATTCTCCTAAGCC
CCGTGCCCCATGCCTCCGGGGCCCACTCCACTGGGCCCAACCTGGACCTGTTTTCCACTAAAGCCTTTTGGAAG
CGGTGATTTGAGGGGCAAGGTGCTTAGAGATACTCGCTCGCTGGGGAAGGGGGGAGGGAGGCAGTGGTGGCTGGA
GGGTGCGCCACTTTTCAGAGCCTCTGGTCACCTGTCTTGAAAGATTGGGAGGGGGCCAGACTGAAAATTTTACT
AGAGTTACAACCTCTGATACCTCAACACACCCCTTAAATCTGGAAGCAGCTAAGAGAACTTTTGTTTTGCCAGAGG
TGGCCACTAAGGCATTCTGACGCCCTCTGCCCACCTCCCCCGCTGTGTGTCACTCCACCCCTTCTTCCGAGGAGG
GGGTGGGTAAAGGGGAGAGGGAGAATTACCACCTGTATCTAGAGGTGCTCTTTGCAATCCCTAAGCCCTCTGGTC
CTGACCTCCGACCTCCAGCTCTGTCTTGTTCCTTGTCTTTGTCTTTCTCCCTTCCCCCTGCCCTTGCCCTTAC
CAGCCCAGCTTTGGGGACACCATCCTTCTGGGGAGAAGTAGGGGGAGGAATATTGGATGGTCCCTCCATTCCCT
TTCAGGCATCTGGAGGCCCTCTCCCCCACTCCTCCAAAGAAACATCTCAAATTATTGATGGAATGTATCCCCATT
CTCAGTGAAAATGTGAGGAGGGGACTAATACTGGGGTAAAGGGTCAAACCCCCACCTTCATCACTATGGGCATTA
TATTTAGGGAGTAGTTCCTTGGGCTGGATTTCTGGTTGTGGAAGTGGGGGCGCCAGAGTAGTGTGTCTGCTATTT
AAAGGAGCAGGAAAGGGCGTGAGGCAGGAGGAGAGACTGGTGGAGGGAAGAGCTGCTCCTCCCATGCAGTGCCCG
ACTCCCTGCACCCCTCTCAACCTGACCTGAACCTTTATTGAATCCTTATTAGCTTGAATCCTTATTAGCTTGAAT
CCTCCATGCAAAATCATGGAGTCTGTGTCCACCTGATGTGGTTGAGGAGAAGCCAGGTCTTCAAAGAGGGGTGAG
CCTGGGGCAAAGCAGGACTGGGGGGAGGTGGGCAGCAGGGGCCATTCTGAGAATCACATATTGTTACAGGCCTTG
CACCCCTTTGCTGCTTCCCTCCTGCTCATTTGGGGCTGCCACAGCTCTCCACCCCTCCTGGTTCCGCTGGCCGG
GCCAAGAGAGGATGGAGGATGGGAGTCCAGGAGATCCTTGTAAATAGTGGGGTGGGACTGTTCTGAGTGATCA
CCCCGAGCACTTAAAGCTCCAGAGTCCCAITCTTCTGGAATGGAGCAGGTGGAGGTGCAGAGGGGATTTCTCTCT
TCCTTCTCCTGTGAGAAATTAACACCTCTCCACAGCCTTCCCTCCAGAACACCAGCCAGGGAGGGGTGGGGAA
GGAGGTACAGGCCAAGAAAACCTGCCCTGTGACGACTTCCCTCCTTCCCGCCTATGTGAGCCATCTGAGATGTCT
GTACAATAGAAACCAAACCAATGGGCACCCCTCGGTTGCCGGGGGGCAGGTGGGGAGGGGGGTGGGAAGAAGGGA
TGTCTGTCTGTGCTCCCCCTCCCCCTCTCCACTCTTTACCCACAAAGGCAGAAGACTGTTACACTAGGGGGCTCA
GCAAAATCAATCCACCCCTTACCAATTGAGCCAAACCTAGAAACAAACACAAACACGAATAGTGAGAGACAAA
TAGAGGAGAGAAAAGAGAGCATGAGAGGGAGCGAGACAGGCGACCAACACAGAGGAGAGAAAACAAAAATAGC

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FIGURE 407

LRLKGSSNTTECVPVPTSEHVAEIVGRQGCKIKALRAKTNTYIKTPVRGEEPVMVTGRREDVATARREIISAAE
HFMSIRASRNKSGAAGVAPALPGQVTIRVRVPYRVVGLVVGPKGATIKRIQQQTNTYIITPSRDRDPVFEITGA
PGNVERAREEIEITHIAVRTGKILEYNNENDFLAGSPDAAIDSRYSDAWRVHQPCKPLSTFRQNSLGCIGECGVD
SGFEAPRLGEQGGDFGYGGYLFPGYGVGKQDVYYGVAETSPPLWAGQENATPTSVLFSSASSSSSSSAKARAGPP
GAHRSPATSAGPELAGLPRRPPG

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FIGURE 408

GGAGGAGCCGGGCGGGCTGGCGGGCGGCCGGGTGGCGGCGGCGGCATGGCGGAGCCGAGCGGGGCCGAGACGAGG
CCCCCATTCGGGTCACCGTCAAGACCCCCAAGGACAAGGAGGAAATTGTGATCTGCGATCGAGCCTCGGTCAAG
GAGTTCAAAGAGGAAATCTCCCGGAGGTTTAAGGCTCAGCAGGATCAGCTGGTCTGTATCTTCGAGGCAAGATC
CTCAAGGATGGGGACACACTGAACCAGCACGGAATCAAGGACGGGCTCACTGTCCATCTGGTCATCAAGACCCCT
CAGAAGGCTCAAGATCCAGCTGCTGCCACTGCTTCTTCCCCCTCCACACCTGACCCTGCCTCAGCACCCCTCCACC
ACGCCTGCTTCACCCGCCACCCCTGCCAGCCCTCCACCTCTGGCAGTGCCCTTTCAGATGCTGGCAGTGGAAGC
CGGAGGAGCAGTGGTGGGGGGCCCTCTCCGGGGGCTGGGGAGGGATCCCCCAGTGCTACTGCGTCCATACTCTCT
GGCTTTGGGGGCATCCTGGGGCTGGGCAGCCTAGGCCTGGGCTCTGCCAACTTCATGGAGCTGCAGCAGCAGATG
CAGCGGCAGCTGATGTCCAATCCTGAGATGCTGTACAGATCATGGAGAACCCCTGGTCCAGGATATGATGTCT
AACCCTGATCTGATGCGTCACATGATTATGGCCAACCCCCAGATGCAGCAGTTGATGGAGCGGAACCCCTGAGATC
AGCCACATGCTCAATAACCCCTGAACCTCATGAGGCAGACAATGGAGCTTGCTCGGAATCCAGCCATGATGCAAGAG
ATGATGCGGAACCAGGACCGGGCCCTGAGCAACCTTGAGAGCATCCCTGGAGGGTATAATGCCCTCCGCCGCATG
TACACGGACATCCAGGAGCCCATGTTCACTGCTGCCCGGGAACAGTTTGGCAACAATCCCTTCTCTTCCCTGGCC
GGGAACCTCCGACAGCTCATCCTCCAGCCTCTGCGGACTGAGAATCGAGAGCCCTCCCTAACCCTGGAGCCCC
TCGCCCCCCACCTCCAGGCCCGGGTCCGGTGGGGAGGGCACCGGAGGATCGGGGACCAGCCAGGTGCACCCG
ACAGTCTCGAACCCCTTTGGGATCAATGCGGCTAGCCTGGGGTCAGGGATGTTCAATAGCCAGAAATGCAAGCC
CTCCTCCAGCAGATCTCTGAGAACCCCCAGCTGATGCAGAATGTGATCTCAGCACCCCTACATGCGCAGCATGATG
CAGACGCTTGCCAGAACCCCGACTTTGCTGCTCAGATGATGGTGAATGTGCCGCTCTTCGCGGGGAACCCCCAA
CTGCAGGAGCAGCTCCGCCCTGCAGCTCCAGTCTTCTGCAGCAGATGCAGAACCCAGAGTCACTCTCCATCCTT
ACCAATCCCCGAGCCATGCAGGCATTGCTGCAGATCCAGCAGGGACTACAGACCTTGAGACCCAGGCCCCCTGGG
CTGGTACCCAGCCTTGGCTCCTTTGGGATATCCCGGACCCACAGCACCCCTCAGCAGGCAGCAACGCAGGGTCTACG
CCCGAGGCCCCCACTTCCCTCACCAGCCACGCCAGCCACATCTTCTCCAACAGGGGCTTCCAGCGCCAGCAGCAA
CTCATGCAGCAGATGATCCAGCTTTTGGCTGGAAAGTGGAAATCACAGGTGCAGACGCCAGAAGTGAGATTTCAG
CAGCAGCTGGAGCAGCTCAACTCCATGGGCTTCATCAATCGTGAGGCTAACCTGCAGGCCCTGATTGCCACAGGA
GGGGACATCAACGCAGCTATCGAGAGACTGCTGGGCTCCAGCTCTCCTAATCCCTCGGCCCATGCCTCCTGCCT
CTCCCTCCCTCGATGTCAGCATTCGGTTCTTCTGTCAATCCTTACCCTCTGCAGCTTGCTCCTCCCTCCGTCTT
CTCCCTCATCCTTTCAAACAGCAGGGTGACTTTAGAGGCATGGGCTCCAACCCCTTAGCTCTGTCTGAGAATTA
TGGTTTTACTGCTACGCTCTTAACAGACTCTTCTCTCCTGGTCTCCTTGAGCAGTGCTACTTAAACAGTTTTCAC
AGTTTCATTGATTGACTCTACCTCCTTGCCCCACACCACTTTTGCAATCTTTAACTTTCAGTGGCTGTGCAGAG
TCGAGGGAGGAACCAGCTCTCTGGTTTACTGGAACATAGTCTTCCATCTATACCACTAGGGTTTTGTCTTATGTT
TACTTTTGGTAACTCTCTTCTTCTTTTCTCCCTACCCCCAACCCCTAGCCCAACCAATGCTAGAAATTTCTTG
CTCTGAAGGAGGAGCAGGTGAAACAGGTGGTAAATTTCTTCTCGGCCCTATTCTGGTTTATTTCAGCACTTTT
GGTGGGAACGTGTGGAATTCAGGGTAAGGAGGAAGATGCCGTGTTCTCCCTGTCTGAAGAGGGAGATGAGACAG
CTCTCTGGACAGGAATTAACAAACGCTGGAGCAGCCAGAGGAAATCGTGTGAAAGAGGAGGAATGAGATTAT
TCGGAGGAAGGGAATGGGGGAGACAGCCTGAGTAAAAGGCTTGGAAAGTTGGAATTAACAGTGGGGAGCAGAAGCA
CTCATAGCTCTTTAGGCAGAAGAATCCAGGCCGAGCTGGCAGAAGAGACTTAGAGATGCTAATGGAATTTAAA
CTGAAAAAAGGAGCCCAATGAAGCTAAGCGCCACGCCCAAGGGTCATATTGGCTTTAGTTCTCAAGCATA
TGTGCTTATATGCACACACACACATTTCCATGGACCCAGGCTTGCTTGTGTCCCAGGCACCAGTAGTTTGA
GCCCCCTCAAAGACATGAAGGGGTTGGGGTCTGTGTGAGTAGTGGGGAGGTGCATGTGTATCCACATGTGTG
CATACACTCTTAAGTTGGGTGGGAAGTGGATTCTTGTGTTTCTGGTTTCAGAGTGCTCTCCACCACCAGAGA
CAAGTGGGTAAAAGGTCAGTCCATTGCAGGAATATATACGGGAGAGCTAGGTCCCTTGGGGCTCTGGATGCT
GGGTAACCCAGAGGTAATGTGGGTACCCTTTCTGAAGCTGTGAGGGCTGTGACTAGCACCCCTTATACCCCTCAC
TGCCTTGTGGGAATAGTAGAGGTTTCTTCTCCAGAGCCCCIGGCCCTTTCAGTTCTTAACATTTCCCTCCAG
GCCAGAAAGTTTCTTTGAGGAAGGAGAGGAGGGTGGCAATGATGCCCTTTGATCTGGAATTGGACATTTCTCT
GTCAGAGCACAGAGGAGGCTCATATCACCTCTTCCCTCTCCTACTTGGCCAGCTGCTTGGAGGACCGACCCCAT
GGCTGAGAAATATGACGGCAAGAGGAACAGAGTTTGCTCCAAGTGGGAAAGGGTCCCAAGCAGTCCAGAGAAGATG
TCTGTGTGGCTTTCCCTCCCTGCCCTCCCCCAGCTCCACACTGGCCTTTGTAAATAAATGGCGTGGTCTTTGTG
TG

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FIGURE 409

GGCTCTCTTCCTGTCTTTGTGGCTCCGGAAAGGCGTTTGGGATGCCAACGATGAGGCTGCTGTCAATTGTGGTGT
TGGCTCTATTTGCTGTCACTCAAGCAGAGGAAGGAGCCAGGCTTTTGGCTTCCAAATCACTGCTGAACAGATACG
CCGTGGAGGGACGAGACCTGACCTTGCAGTACAACATCTACAATGTTGGCTCAAGTGCTGCATTAGACGTGGAAC
TATCTGATGATTTCCTTCCCTCCAGAAGACTTTGGCATTGTGTCTGGAATGCTCAATGTCAAATGGGACCGGATTG
CCCCTGCTAGCAATGTCTCCACACTGTGGTCTGCGCCCTCTCAAGGCTGGTTATTTCAACTTCACCTCGGCAA
CAATTACTTACCTGGCCCAGGAGGATGGGCCCGTTGTGATTGGCTCTACCAAGTGACCTGGACAGGGAGGAATCC
TGGCTCAGCGGGAGTTTGACAGGCGATTCTCCCTCAATTTCTGGACTGGGCAGCCTTTGGGGTCATGACCCCTC
CCTCCATCGGCATCCCCCTGCTATTGTGGTACTCCAGCAAGAGGAAATATGACACTCCCCAAACGAAGAAGAACT
GATTGGGGCTTCCACAGCCCTCCTCTCCCAAGAAATCCAGGCTCCTCTCCCAAGAAATCCAGGTGCTTTCCAGAC
TCCAAAGGGTATCTTAAATGCAATCTCTTCTCTTAGCCCTTGGCCACTTTCTCCTGGATCCTGCCCTGCTCTC
AGCCATAGTGAAGGACCAGCCCTAGGAGTCTGCGAGAGCCTCCTTGGTTCCATCGTGAAGCCATAAACAGGAATG
CCTTTGGCAATAGCCTTGAGCCTAGAGGGCCCTCTGATGCCCCACTGAGGTGCTGTTGGTTTATTGCTGGCAACG
TGAATTCTCTCAGGGGTCTAGGAGGGGCATTTTGAGACTGCCTGACACCACCCCTATCCCCTGCCTCCCCCTCT
CAGAAGAGGGTGAAGATGAAATGAAAGCTATGGGACTCTTGGAGGATACCCAGTGTCTATTCTGGGTTAGAGAA
GTGCTTACTAAGGGGTTTTCTAATAAAAACAAATGCCAATTGC

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FIGURE 410

MRLLSFVVLALFAVTQAEEGARLLASKSLLNRYAVEGRDLTLQYNIYNVGSSAALDVELSDDSFPPEDFGIVSGM
LNVKWDRIAPASNVSHTVVLRPLKAGYFNFTSATITYLAQEDGPVVGSTAPGQGGILAQREFDRRFSPHFLDW
AAFVMTLPSIGIPLLLWYSSKRKYDTPKTKKN

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FIGURE 411A

GAGACCAACGCGTGC GG GCGCAACCCCTCCCCCGCCTTCCCCCAACAATACAGGACGCCGGGGTCCGCGCCGCG
TCCTCCCTGGTCCCCCGTCCGATTATGTCTCGGATCGAATCCCTCACGCGGGCGCGGATCGACCGGAGCAGAGA
GCTGGCGAGCAAGACCCGGGAAAAGGAGAAAAATGAAGAAAGCCAAGGATGCCCGCTATACAAATGGGCACCTCTT
CACCACCATTTCAGTTTCAGGCATGACCATGTGCTATGCCTGTAACAAGAGCATCACAGCCAAGGAAGCCCTCAT
CTGCCAACCTGCAATGTGACTATCCACAACCGCTGTAAAGACACCCTCGCCAACGTGTACCAAGGTCAAGCAGAA
GCAACAGAAAGCGGCCCTGCTGAAGAACAACACCGCCTTGCAAGTCCGTTTCTCTTGAAGTAAGACAACCATCCG
GGAGCGGCCAAGCTCGGCCATCTACCCCTCCGACAGCTTCCGGCAGTCCCTCCTGGGCTCCCGCCGTGGCCGCTC
CTCCTTGCTTTAGCCAAGAGTGTCTTACCACCAACATTGTGGACATTTCAATGATGAGTCTCCCTGGGGCT
GCGCCGGATCCTCTCACAGTCCACAGACTCCCTCAACATGCGGAACCGAACCCTATCCGTGGAATCCCTCATTGA
CGAAGAGGTAATCTACAGTGAGCTGATGAGTGACTTTGAGATGGATGAGAAGGACTTTGCAGCTGACTCTTGAG
TCTTGCTGTGGACAGCAGCTTCCTGCAGCAGCATAAAAGGAGGTGATGAAGCAGCAAGATGTCTATGAGCT
AATCCAGACAGAGCTGCACCATGTGAGGACACTGAAGATCATGACCCGCTCTTCCGCACGGGGATGCTGGAAGA
GCTACACTTGAGCCAGGAGTGGTCCAGGGCCTGTTCCCTGCGTGGACGAGCTCAGTGACATCCATACACGCTT
CCTCAGCCAGCTATTAGAACGCCGACGCCAGGCCCTGTGCCCTGGCAGCACCCGGAACCTTTGTCTATCCATCGCTT
GGGTGATCTGCTCATCAGCCAGTTCTCAGGTCTAGTGCGGAGCAGATGTGTAAGACCTACTCGGAGTTCTGCAG
CCGCCACAGCAAGGCCTTAAAGCTCTATAAGGAGCTGTACGCCCGAGACAAACGCTTCCAGCAATTCATCCGGAA
AGTGACCCGCCCGCGCTGCTCAAGCGGCACGGGTACAGGAGTGATCCTGCTGGTGACTCAGCGCATCACCAA
GTACCCGTTACTCATCAGCCGATCCTGCAGCATTCCACGGGATCGAGGAGGAGCGCCAGGACCTGACCACAGC
ACTGGGGCTAGTGAAGGAGCTGCTGTCCAATGTGGACGAGGGTATTATCAGCTGGAGAAAGGGGGCCGCTGTGA
GGAGATCTACAACCGCATGGACCTCGGGCCCCAAACCCAGTGCCCTGGCAAGGGCCCCCTTTGGCCGAGAGGAACT
TCTGAGGCGCAAACCTCATCCACGATGGCTGCCTGCTCTGGAAGACAGCGACGGGGCGCTTCAAAGATGTGCTAGT
GCTGCTGATGACAGATGTACTGGTGTCTTCCAGGAAAAGGACCAGAAAGTACATCTTCCCTACCCTGGACAAGCC
TTCAGTGGTATCGCTGCAGAACTAATCGTACGAGACATTGCCAACAGGAGAAAGGGATGTTTCTGATCAGCGC
AGCCCCACCTGAGATGTACGAGGTGCACACAGCATCCCGGGATGACCGGAGCACCTGGATCCGGGTCACTTCAGCA
GAGCGTGCGCATGCCCATCCAGGGAGGACTTCCCCCTGATTGAGACAGAGGATGAGGCTTACCTGCGGCGAAT
TAAGATGGAGTTGCAGCAGAAGGACCGGGCACTGGTGGAGCTGCTGCGAGAGAAGGTCGGGCTGTTTGCTGAGAT
GACCCATTTCCAGGCCGAAGAGGATGGTGGCAGTGGGATGGCCCTGCCACCCCTGCCAGGGGCCCTTTCCGCTC
TGAGTCCCTTGAGTCCCCTCGTGGCGAGCGGCTGCTGCAGGATGCCATCCGTGAGGTGGAGGGTCTGAAAGACCT
GCTGGTGGGGCCAGGAGTGGAACTGCTCTTGACACCCCGAGAGCCAGCCCTGCCCTTGGAACAGACAGCGGTGG
TAACACGAGTCTGGGGTCACTGCCAATGGTGAGGCCAGAACCTTCAATGGCTCCATTGAACTCTGCAGAGCTGA
CTCAGACTCTAGCCAGAGGGATCGAAATGGAAATCAGCTGAGATCACCGCAAGAGGAGGCGTTACAGCGATTGGT
CAATCTCTATGGAATTCTACATGGCTACAGGCAGCTGTGGCCAGCAGGACACTCTGATGGAAGCCCGGTTCCC
TGAGGGCCCTGAGCGCGGGGAGAAGCTGTGCCGAGCCAACTCTCGGGATGGGGAGGCTGGCAGGGCTGGGGCTGC
CCCTGTGGCCCTGAAAAGCAGGCCACGGAATGGCATTACTGCAGCGGCAACATGCGCTGCTGCAGGAGGAGCT
ACGGCGCTGCCCGCGGCTAGGTGAAGAACGGGCAACCGAAGCTGGCAGCCTGGAGGCCCGGCTCCGGGAGAGTGA
GCAGGCCCGGGCACTGCTGGAGCGTGAGGCCGAAGAGGCTCGAAGGCAGCTGGCCGCCCTGGGCCAGACCGAGCC
ACTCCCAGCTGAGGCCCCCTGGGCCCCGAGACCTGTGGATCCTCGGCGGCGCAGCTCCCCGAGGCGATGCCCT
GTAATTGAGTTTCAACCCCCCACAGCCAGCCGAGGCACTGACCGCTGGATCTACCTGTCTACTACTCGCTCTGT
CCATCGAACTTTGAGGACCGAGAGAGGAGGAGGAACTGGGGAGCCCCGAAGAGCGGCTGCAAGACAGCAGTGACCC
TGACACTGGCAGCGAGGAGGAAGGTAGCAGCCGCTGTCTCCGCCCCACAGTCCACGAGACTTTACCAGAATGCA
GGACATCCCGGAGGAGACGGAGAGCCGCGACGGGGAGGCTGTAGCCTCCGAGAGCTAAGGGGGCCCCCTCCCCCT
GCCCCGTGCCCACTGAAGAACATTACTGAGGGGGCTAACCTTGGGGACTCCAATTTGCCAATGATGAGGGAACA
TTTGAAAGAACTGCAAAATTGTCTTGCCAGCTCTTGGGATCCTTGATACCTGGGGCCATTTAAGAAGCTAGGGG
AATTAGGCCACAACACCCCTGGGACATCCGAAAGCTACACCACAGATGCCAGTGGTTCATGCCTTCTTCCCGCA
ACTTTAGGAAAATTTATTTATTTATTGTTTATTAGTTATGGGGGAGAGGGGAGATTTAAGGACCAGGGACATG
GGAACCAAGCCATAGGGATCAGAGGGCCTGTCTTGAACACTACTGGGGTATATTACAGGCTCATCCACGAGCT
GCTGGGTTCTTGCCCTAACGGCCCTCCCTGCAACATCCGTCTTGGAGGAGAGGCTGCAGCCACAGCACCCCTACT
GCCCTTTAAATAAAGGAGGGCTGTGGGCAGGGCCATGTCCTTTCTCTCTCCCCCTCAACCTCTTACTGCTGTT

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FIGURE 411B

TCCCTTTCTCCGTCCTTCATGGAAGCCCTGGGAGATAACCTGGCTTCCTGGAGTTGATGGAATAAAGGTGGGGT
GGCCATAATGGTTTGTGGGGGTGAGGGAAAAACCCACAGGGACCAGAATGTTTGTGTTCTTTGTTTCTT
TTTGTACCAAAGTCAACTGCACGTGTTTTATATTTTAAGAGATCGTAGGCAATTAGAGATCGAAGCCTCCTAT
CTCCACATCTCTGAAGAAGTTGAGGGGTGGGGGAGAGAATGACTTCTGCCTTCATCTGCAGTAACGGGGGACCT
ATACTGACCTCTTCCCCAGCCATTTAGAAACAAGTTCTAGGGTGGGTGGAAAATCTCCAAGAGCCCTGACCTCA
TCTTCCACCTCAGCAACCATGACCTGAAACCTCAGCGTGAATTTGGGGGATTTTTCAGTGGAAACCCTTGCCCCCA
AATGTCGACCAGCCCCAAATGTCGAAGAATTTCTTCTTGCCAATTTGTTGTTTAAAAAAAATTTCAGGGAA
AATTAAAAACCTGGAACCTCA

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FIGURE 412

ATGCAGCAGCACGTTTCAGCTCTTGACCCAAATCCACCTTCTTGCCACCTGCAACCCCAACCTCAATCCGGAGGCC
ACTACCACCAGGATATTTCTTAAAGAGCTGGGAACCTTTGCTCAAAGCTCCATCGCCCTTACCATCAGTACAAC
CCCAAGTTTCAGACCCTGTTCCAACCCTGTAACTTGATGGGAGCTATGCAGCTGATTGAAGACTTCAGCACACAT
GTCAGCATTGACTGCAGCCCTCATAAACTGTCAAGAAGACTGCGAATGAATTTCCCTGTTTGCCAAAGCAAGTG
GCTTGGATTCTGGCCACAAGCAAGGTTTTTCATGTATCCAGAGTTACTTCCAGTGTGTTCCCTGAAGGCCAAAGAAT
CCCCAGGATAAGATCGTCTTCACCAAGGCTGAGGACAATTTGTTAGCTTTAGGACTGAAGCATTTTGAAGGAACT
GAGTTTCTTAATCCTCTAATCAGCAAGTACCTTCTAACCTGCAAACTGCCACCAACTGACAGTGAGAATCAAG
AACCTCAACATGAACAGAGCTCCTGACAACATCATTAAATTTTATAAGAAGACCAAACAGCTGCCAGTCCTAGGA
AAATGCTGTGAAGAGATCCAGCCACATCAGTGGAGCCACCTATAGAGAGAGAAGAACCAGGCTCCCATTTCTGG
TTAAAGGCCAGTCTGCCATCCATCCAGGAAGAAGTCCGGGCACATGGCTGATGGTGCTAGAGAGGTAGGAAATATG
ACTGGAACCACTGAGATCAACTCAGATCGAAGCCTAGAAAAAGACAATTTGGAGTTGGGGAGTGAATCTCGGTAC
CCACTGCTATTGCCTAAGGGTGTAGTCTCTGAACTGAAGCCAGTTGCCACCCGTTTCCCCAGGAAGGCTTGGAGA
CAGAAGCGTTTCATCAGTCTGAAGCCCTCCTTATCCAACCCAGCCCTCTCTCCAGCCAGCTTCAACCTTGGG
AAAACACCAGCCGATCAACTCATTGAGAAGCCCTCCGAGCAAAATGGTGCTCCGGATTCTCACCCTAATACAG
CCAGCCACTGTTTACAGACAGTTCAGGTGTCCCTCCACTGGGGGTGAGTGGAGGTGAGAGTTTTGAGTCTCCT
GCAGCACTGCCCTGCTGTGCCCCCTGAGGCCAGGACAAGCTTCCCTCTGTCTGAGTCCCAGACTTTGCTCTCTCT
GCCCCCTGTGCCCAAGGTAATGCTGCCCTCCCTTGCCCCCTCTAAGTTTCGAAAGCCATATGTGAGACGGAGACC
TCAAAGAGAAGAGGAGTCAAGGCCTCTCCCTGTATGAAACCTGCCCTGTTATCCACCACCCTGCATCTGTTATC
TTCACTGTTTCTGCTACCACTGTGAAGATTGTGAGCCTTGGCGGTGGCTGTAACATGATCCAGCCTGTCAATGCG
GCTGTGGCCCAGAGTCCCCAGACTATTCCCATCACTACCCTCTTGGTTAACCCCTACTTCTTCCCCTGTCCATTG
AACCAGTCCCTTGTGGCCTCCTCTGTCTCACCCCTTAATTGTTTTCTGGCAATTCTGTGAATCTTCTATACCATCC
ACCCCTGAAGATAAGGCCACAGTGAATGTGGACATTGCTTGTGCTGTGGCTGATGGGGAAATGCCTTTTCAGGGC
CTAGAACCCTAATTAGAGCCCCAGGAAGTATCTCCTCTCTCTGCTACTGTTTTCCCGAAAGTGAACATAGCCCA
GGGCTCCACTAGCAGATGCAGAGTGCCAAGAAGGATTGTGAGAGAATAGTGCCTGTCGCTGGACCGTTGTGAAA
ACAGAGGAGGGGAGGCAAGCTCTGGAGCCGCTCCCTCAGGGCATCCAGGAGTCTCTAAACAACCCTACCCCTGGG
GATTTAGAGGAAATTGTCAAGATGGAACCTGAAGAAGCTAGAGAGGAAATCAGTGGATCCCTGAGCGTGATATT
TGTGATGACATCAAAGTGAACATGCTGTGGAATTGGACACTGGTGCCCCAAGCGAGGAGTTGAGCAGTGCTGGA
GAAGTAACGAAACAGACAGTCTTACAGAAGGAAGAGGAGAGGAGTCAGCCAACTAAAACCCCTTCATCTTCTCAA
GAGCCCCCTGATGAAGGAACCTCAGGGACAGATGTGAACAAAGGATCATCAAAGAATGCTTTGTCCTCAATGGAT
CCTGAAGTGAGGCTTAGTAGCCCCCAGGGAAGCCAGAAGATTATCCAGTGTGATGGTCAGTCAGTGGGGACT
CCAGTTGGGCCAGAACTGGAGGAGAGAAGAATGGGCCAGAAGAAGAGGAAGAAGAGGACTTTGATGACCTCACC
CAAGATGAGGAAGATGAAATGTATCAGCTTCTGAGGAATCTGTGCTTTCTGTCCCAGAACTCCAGGTGAGAGCT
GGAGAATATTCTCAAGTATTTCTGTGACTCAGTAATATGTATCACTTATTGATATGCCACCTGCTTGCTTGCTGC
ACTATGGATAGTCCTAAATCATTGTATTTGA

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FIGURE 413

MQQHVQLLTQIHLLATCNPNLNPEATTTRIFLKELGTFQAQSSIALHHQYNPKFQTLFQPCNLMGAMQLIEDFSTH
VSIDCSPHKTVKKTANEFPCLPKQVAWILATSKVFMYPPELLPVCSLKAKNPQDKIVFTKAEDNLLALGLKHFEGT
EFPNPLISKYLLTCKTAHQLTVRIKLNLMNRAPDNIKFYKTKQLPVLGKCCEEIQPHQWKPPIEREEHRLPFW
LKASLPSIQEELRHMDAGAREVGNMTGTTEINSDRSLEKDNLELGSESRYPLLLPGGVVLKLPVATRFPRKAWR
QKRSSVLKPLLIQPSPLQPSFNPGKTPARSTHSEAPP SKMVLRIHPHPIQPATVLQTVPGVPPLGVSGGESFESP
AALPAVPPEARTSFPLSESQTLLSSAPVPKVMLPSLAPSKFRKPYVRRRP SKRRGVKASPCMKPAPVIHHPASVI
FTVPATTVKIVSLGGGCNMIQPVNAAVAQSPQTIPITITLLVNPTSFPCPLNQSLVASSVSPLIVSGNSVNLPIPS
TPEDKAHVNVNDIACAVADGENAFQGLEPKLEPQELSPLSATVFPKVEHSPGPPLADAECQEGLSENSACRWTVVK
TEEGRQALEPLPQGIQESLNNPTPGDLEEIVKMEPEEEAREEISGSPERDICCDDIKVEHAVELDTGAPSEELSSAG
EVTQTVLQKEEERSQPTKTPSSSQEPPDEGTSGTDVNGSSKNALSSMDPEVRLSSPPGKPEDSSSVDGQSVGT
PVGFPETGGEKNGPEEEEEEDFDDLTQDEEDEMSSASEESVLSVPELQVRAGEYSQVFRGLSNMYHLLICHLLACC
TMDSPKIICI

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FIGURE 414

GCCTTTTTTGCAGTCTCAGGACGGGCGCTTTGGAGCCGGCCCCAGGCAGCGTGTGTCGGTCGCCTAGTCTGGAGA
ACTAGTCCTCGACTCACGTGCAAGGATGATGCTGAAAGGAATAACAAGGCTTATCTCTAGGATCCATAAGTTGGA
CCCTGGGCGTTTTTTACACATGGGGACCCAGGCTCGCCAAAGCATTGCTGCTCACCTAGATAACCAGGTTCCAGT
TGAGAGTCCGAGAGCTATTTCCCGCACCAATGAGAATGACCCGGCCAAGCATGGGGATCAGCACGAGGGTCAGCA
CTACAACATCTCCCCCAGGATTTGGAGACTGTATTTCCCATGCGCTTCCTCCTCGCTTTGTGATGCAGGTGAA
GACATTCAGTGAAGCTTGCCTGATGGTAAGGAAACCAGCCCTAGAACTTCTGCATTACCTGAAAAACACCAGTTT
TGCTTATCCAGCTATACGATATCTTCTGTATGGAGAGAAGGGAACAGGAAAAACCCTAAGTCTTTGCCATGTTAT
TCATTTCTGTGCAAAACAGGACTGGCTGATACTACATATTCCAGATGCTCATCTTTGGGTGAAAAATTGTCGGGA
TCTTCTGCAGTCCAGCTACAACAAACAGCGCTTTGATCAACCTTTAGAGGCTTCAACCTGGCTGAAGAATTTCAA
AACTACAAATGAGCGCTTCCTGAACCAGATAAAAGTTCAAGAGAAGTATGTCTGGAATAAGAGAGAAAGCACTGA
GAAAGGGAGTCTCTGGGAGAAGTGGTTGAACAGGGCATAACACGGGTGAGGAACGCCACAGATGCAGTTGGAAT
TGTGCTGAAAGAGCTAAAGAGGCAAAAGTTCTTTGGGTATGTTTCACCTCCTAGTGGCCGTGGATGGAATCAATGC
TCTTTGGGGAAGAACCACTCTGAAAAGAGAAGATAAAAGCCGATTGCCCCGAGGAATTAGCACTTGTTCAAA
CTTGAGGAAAATGATGAAAAATGATTGGCATGGAGGCGCCATTGTGTCGGCTTTGAGCCAGACTGGGTCTCTCTT
TAAGCCCCGAAAGCCTATCTGCCCCAGGAGTTGCTGGGAAAGGAAGGATTTGATGCCCTGGATCCCTTTATTCC
CATCCTGGTTTCCAATAAACCAGGAATTTGAAAGTTGTATTTCAGTATTATTTGGAAAACAATTGGCTTCA
ACATGAGAAAGCTCCTACAGAAGAAGGGAAAAAAGAGCTGCTGTTCCCTAAGTAACGCGAACCCCTCGCTGCTGGA
GCGGCACTGTGCCTACCTCTAAGCCAAGATCACAGCATGTGAGGAAGACAGTGGACATCTGCTTTATGCTGGACC
CAGTAAGATGAGGAAGTCGGGCAGTACACAGGAAGAGGAGCCAGGCCCTTGTACCTATGGGATTGGACAGGACTG
CAGTTGGCTCTGGACCTGCATTAAATGGGTTTCACTGTGAATGCGTGACAATAAGATATTCCTTGTTCCTAAA
ACTTTATATCAGTTTATTGGATGTGGTTTTTCACATTTAAGATAATTATGGCTCTTTTCCTAAAAAATAAAATAT
CTTTCTAAAAA

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FIGURE 415

MMLKGITRLISRIHKLDPGRFLHMGTOARQSIAAHLNQVVPESPAISRITNENDPAKHGDOHEGQHYNISPQDL
ETVFPHGLPPRFVMQVKTSEACLMVRKPALELLHYLKNTSFAYPAIRYLLYGEKGTGKTLCHVIHFCAKQDW
LILHIPDAHLWVKNCRDLLQSSYNKQRFQPLEASTWLKNFITTNERFLNQIKVQEKYVWNKRESTEKGSPLEGEV
VEQGITVRNATDAVGIVLKELKRQSSLGMFHLLVAVDGINALWGRTTLKREDKSPIAPEELALVHNLRKMMKND
WHGGAIVSALSQTGSLFKPRKAYLPQELLGKEGFDALDPFIPILVSNYNPKEFESCIOYYLENNWLQHEKAPTEE
GKKELFLSNANPSLLERHCAYL

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FIGURE 416

TC TTCACCACTGCTCTCCAGAGGTCCAGGTCCGGGAGATGACAGTGGCTCCCAGAAAGCCCAGGATTCAATCGC
TGAGAGAGTGCTTAGGCCCGAATGCCGGCCCAAATCGTTCTACTACCGTGTCGGAGGCCGAGAGCGATGAGAGT
ACAGGGAAGTGAGGAAGAGGGGGTGGCCGCCAGGCTCCTCCGCTTCCCTGGGTCCACCGCGGATCCCTCCCGCTT
GTCAGGAGGCGGCCAGCGGGTAAGCCGACTGGCGGAAATGCGAGAGAGGAGAAGGGAAAGGTGGAGGGCTAAAGG
GGCAAACCTGAGAGGAGGCGGATCCCGCAACCGACACTGGGATCGTTTCCCCCTCGCAAAGCGAACCCAAAATGGCG
GCGGCAGCGGCGGCAGCAGAGTGGCCGCGGCAGCTCCTCCAGAGGGAGGGAGCTAAGGGCGCCTAGCGACACCCC
CAACCTCCCACTCCTCCCTCCTCGCTTCTTCCCCACGGTCCCCCGCTTCGCCCGACTCCGGCCATGTAGCGCGC
ACGTCAGCCCCGACGCGTACGAGTGTCTACGGGCTCGTCGCTGGCTGCTCCACCAACCACCACCTTCGGCCGTC
CTGCGAGCCAGCCATCCCGTACGCGCTACCCACGGGAACCTCCTCGCCAGTTCTCCACTCCCCCTCAGACCCCT
GTCAAGCCGGCTCCAGCGCAGGCCCTCAGCGGTACCTTCAGCGGCGCGAGCCCAAGCCTTCTCCACCTCCTCTTC
TCTCCTCCCCCTCCTCCCCGCGCCGACGGCCACCAACCGCCGCCAAAGCAGCCGCCGCCAGCACCCCCACCCTA
CACTCCTCGCGCGTGCGCCCTCCACAGTCCCCACCGCGGACTGTTCCATTCTTGGCGGCTGCAGGGGCAGGAGA
GGAAGGGACCGGCAAAGCGAGTCTGGCTTGCCGTTTGACTGGAATTGCCAGGGTGGCCGGCCGAGTCCCATGACA
ACCTACCTCCCTGGGTTCGTGCGCGCGCGCTGCGGCTCGCCTCCTCCATGGGACCGCGCGAGGGGATCGA
GGGCGGCCCTAGCGCCCTCTGCGGCGCGGTGGTTGGAGCGCGCGCGGCTGCGCGTTGAGTCGTTTCTTCCCGGA
TGACCCGACCCTTTTTTGCAGTCTCAGGACGGGCGCTTTGGAGCCGGCCCCAGGCAGCGTGTGTGGTTCGCCTAG
TCTGGAGAAGTAGTCTCGACTCACGGTGAGGGAATGGACCGACACGGGTATTGTACCGCTGAGGGAAAGGAGCG
GGACTCCGGACCTCCAGGAGGTAGGGAGTGAGGCCGGTAGACCGCGCGCCTCCGGGGGGGATTCTCCCGGGCG
TTGAGTTGCCAACCTGGGACCCGAGGAAGTTCCGGCGTGGTGGTGTGCTTTTTGTTGTTGTTAACCCCTCCTCGGAT
TTCTCGAATTTACACCACTGTCCATATGCGATATGTTTGTGTTTGGCCTTGACGCACTTACTCATGGATGGTACT
TCAGCCTCGTTAGACAGCCTGGTGATGGAGGATGAAGAAACCATGTGCTTCTCATTAGTTCTGGACTCAGTTTC
CCTTGCTTTCAGCAAGTTATTTTTGTTAGTTTCCTTATCAAAAAGTGATACATAAAAAATTAGGCAACTCCAAACATG
CCTCCAGGGTTGGTGTGTGAAATAATAAGATAGGGCTGGGCGCGGTGGCTCACGCCTGTAATCCAGCACTTTGG
GAGGCCGAGGCAGGTGGATGACAAGGTGAAGAGATCGAGACAATCCTGGCCAACATGGTGAAACCCCGTCTCTAC
TAAAAATACAAATATTAGCCGGCCGTGGTGGCGGGCGCCTGTAGCCCCAGCTACTCGGGAGGCTGAGGCAGGAGA
ATTGCTTGAACCCGGGCGCGGAAGTTGCAGTGAGCCGAGATCGCGCCACTGCACTCCAGCCTGGCGACAAAGCG
AGACTCCGTCACACACACACACACACACGAAATAATAATATGTAAAGTGGAATTAGCTCCAAGTCGTTAAT
AAAACAAAGCAGGCCGGGCGTCTTGTTAAATAGTTGTATCAATGACTTGATTTAGATTAATGAGGATATATTTTT
CAAATTTATGCCTTTTACAAAATTTTTAAAGAGTAGGTAATGTCGGTGATAGATATAAAGAAAGGAAAAGATCTC
CAGATGTGGAATCTTCTACTGGATCCTGTAAACAGAAAGAAGACATTAGGCTGGGCGCAGTGGCTCACACCTGTAA
TCTCAGCACTTTGGGAGGCGGAGGAGGGCGCATTGCTTGAGCCTAGGAGTTCGAGACCAGCTTAGGCAACACGGT
GAAACCCCATCTCTACAAAAAGACACAAAAATTAGACAGGTGTGGCACACGCTTGTAGTCTGAGCTACTTGGGAG
GCTGAAGCAGGAGGATTGAGGAAGAGGTTGCAAAGTTAGCCGAGATCACGCCATCACACTGCAGCCTAGGTGACA
GAGCGAGACCCTGTCTCAAAAAAAGAAAGAAGACATTAGCAGAAAAGCTGAGGAAATGCAATAAAGTCTGCAAT
TTTTAAAT

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FIGURE 417

MTRPFFAVSGRALWSRPQAACVGRLVVRTSPRLTVREWTDTGIVPLRERSGTPDLQEVGSEAGRPARLRGGFLPG
VELPTWDPKFGVVVCFLLLLTLLGFLEFHTTVHMR

FIGURE 418

[illegible]

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FIGURE 419

MGFSNMEDDGPEEEERVAEPQANFNTPQALRFEELLANLLNEQHQIAKELFEQLKMKKPSAKQQKEVEKVKPQCK
EVHQTLILDPAQRKRLQQMQQHVQLLTQIHLLATCNPNLNPEASSTRICLKELGTFAQSSIALHHQYNPKFQTL
FQPCNLMGAMQLIEDFSTHVSIDCSPHKTVKKTANEFPCLEPKQVAVILATSKVFMYPELLPVCSLKAKNPQDKIL
FTKAEDNLLALGLKHFEGETEFLNPLISKYLLTCKTARQLTVRIKLNLMNRAPDNIKFYKKTQLPVLGKCCEEI
QPHQWKPPIEREEHRLPFWLKASLPSIQEELRHMDGAREVGNMTGTTEINSDQGLEKDNSELGSETRYPLLLPK
GVVLKLPVADRFPKKAWRQKRSSVLKPLLIQPSPSLQPSFNPGKTPAQSTHSEAPPSKMVLRIPHPIQPATVLQ
TVPGVPPLGVSGGESFESPAALPAMPPEARTSFPLSESQTLLSSAPVPKVMMPSPASSMFRKPYVRRRPSKRRGA
RAFRCIKPAPVIHPASVIFTVPATTVKIVSLGGGCNMIQPVNAAVAQSPQTIPIATLLVNPTSFPCLNQLPLVAS
SVSPLIVSGNSVNLPPISTPEDKAHMNVDIACAVADGENAFQGLEPKLEPQELSPLSATVFPKVEHSPGPPPVDK
QCQEGLENSAYRWTIVKTEEGRALEPLPQGIQESLNNSSPGDLEEVVKMEPEDATEEISGFL

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FIGURE 420

AGCGCAGTATGGCGGGCGGGGCCCCGGGAGGTGCTCAGCTGCAGTTGGGACATTTTGCCGGTTTCGTGGGCGCGC
ACTGGTGGAACCAGCAGGATGCTGCGCTGGGCCGAGCGACCGATTCCAAGGAGCCCCGGGAGAGCTGTGCCCCG
ACGTCTGTATCGTACGGGCCGGACGCTGCACGGCCAGGAGACCTACACGCCGCGACTCATCTCATGGATCTGA
AGGGTAGTTTGAGCTCCCTAAAAGAGGAAGGTGGACTCTACAGGGACAAACAGTTGGATGCTGCAATAGCATGGC
AGGGGAAGCTCACCACACACAAAGAGGAAGTCTATCCCAAGAACCCTTATCTCCAAGACTTTCTGAGTGCAAGG
GAGTGCTGAGTAGTGATGGTGTCTGGAGGGTCAAATCCATTCCCAATGGCAAAGGTTCCCTCACCCTCCCCACCG
CTACAACTCCAAAACCACTTATCCCTACAGAGGCCAGCATCAGGGTCTGGTCAGACTTCCTCAGAGTCCATCTCC
ATCCCCGGAGCATCTGTATGATTGAGAGTACAACCACGATGGGGAAGCAGGTCGGCTGGAGGCTTTTGGCCAAG
GGGAAAGTGTCCTAAAGGAACCCAAGTACCAGGAAGAGCTGGAGGACAGGCTGCATTCTACGTGGAGGAATGTG
ACTACTTGACAGGGCTTCAGATCCTGTGTGACCTGCACGATGGCTTCTCTGGGGTAGGCGGAAGGCGGCAGAGC
TGCTACAAGATGAATATTACAGGGCGGGGAATAATAACCTGGGGCCTGCTACCTGGTCCCTACCATCGTGGGGAGG
CCCAGAGAAACATCTATCGTCTATTAAACACAGCTTTTGGTCTCGTGCACCTGACTGCTCACAGCTCTCTTGTCT
GCCCCTTGTCTTGGGTGGGAGCCTGGGCCTGCGACCCGAGCCACCTGTCAGCTTCCCTTACCTGCATTATGATG
CCTCTGCCCCTTCCACTGCAGTGCCATCCTGGCTACAGCCCTGGACACAGTCACTGTTCCCTTATCGCCTGTGTT
CCTCTCCAGTTTCCATGGTTTCATCTGGCTGACATGCTGAGCTTCTGTGGGAAAAAGGTGGTGACAGCAGGAGCAA
TCATCCCTTTCCCTTGGCTCCAGGCCAGTCCCTTCCCTGATTCCCTGGTGCAGTTTGAGGAGCCACCCCATGGA
CCCCACTGTCTGCATGTGGGGAGCCTTCTGGAACACGTTGCTTTGCCCAGTCAGTGGTGCTGAGGGGTATAGACA
GAGCATGCCACACAAGCCAGCTCACCCAGGGACACCTCCACCCTCTGCCCTTCATGCATGTACCACTGGGGAAG
AAATCTTGGCTCAGTATTTACAACAGCAGCAGCCTGGAGTCATGAGTTCTTCCATCTGCTGCTGACTCCCTGCA
GGGTGGCTCCTCCTTACCCCACTCTTCTCAAGCTGCAGTCCACCGGGTATGGTTCTGGATGGTTCCCCAAGG
GAGCAGCAGTGGAGAGCATCCAGTGTGGGGCACTGTGTTCCCTCTCGTCCCTGCACCAGACCCTGGAAGCCT
TGGCCAGAGACCTCACCAAACCTGACTTGCGGCGCTGGGCCAGCTTCATGGATGCTGGAGTGGAGCACGATGACG
TAGCAGAGCTGCTGCAGGAGCTACAAAGCCTGGCCAGTGCTACCAGGGTGGTGACAGCCTCGTGGACTAAAGTT
CCCAGTGTGGGAGAAAGGAGCTAGTTTGCAATAAAAACAGCTGGATGCAGGAGCCCAGTGTCTTCATGCAGAGGA
GCTCAATGTCGCGGGACTAGCTACACCAACATATGCACTTTTTACATTTAGAAACACTGTGATTAGACCACAGAA
CAATAAATATGTGCCATCAGACC

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FIGURE 421

MAGGAREVLTQLGHFAGFVGAAHWNQDDAALGRATDSKEPPGELCPDVLYRTGRTLHGQETYPRLILMDLKGS
LSSLKEEGGLYRDKQLDAAIAWQGKLTTHKEELYPKNPYLQDFLSAEGVLSSDGVWRVKSIPNGKGSSPLPTATT
PKPLIPTEASIRVWSDFLRVHLHPRSICMIQKYNHDGEAGRLEAFQGQESVLKEPKYQEELEDRLHFYVEECDYL
QGFQILCDLHDGFSGVGAKAAELLQDEYSGRGIITWGLLPGPYHRGEAQRNIYRLNLNTAFGLVHLTAHSSLVCPL
SLGGSGLGRPEPPVSFPYLHYDATLPFHCSAILATALDITVTPYRLCSSPVSMVHLADMLSFCGKKVVTAGAIIP
FPLAPGQSLPDSLVQFGGATPWTPLSACGEPSTRCFAQSVVLRGIDRACHTSQLTPGTPPPSALHACTTGEEIL
AQYLQQQPGVMSSSHLLLTPCRVPAPPYPHLFSSCSPPGMVLDGSPKGAIVESIPVFGALCSSSSLHQTLEALAR
DLTKLDLRRWASFMDAGVEHDDVAELLQELQSLAQCYQGGDSLVD

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FIGURE 422

AGGTGAGAGAGGATGTGTGCTGGGCCTTGGAGGAAGGGGGCCGAGACCGGGCCTTACTTCTGTAACGATACTGTG
AGGCATCGGAAGGCCAGCCTGTTGTGTCCGTTTTGAAGGATGCCCCCTGTCCCGCTGGTTGAGATCTGTGGGGGTC
TTCTGTGCTGCCAGCCCCCTACTGGGCACCCCGGAGAGGTGGCTGGGTTCCCTACGGCGGCCCTCCCTGGTGCAC
GGGTACCCAGTCCTGGCCTGGCACAGTGCCCGCTGCTGGTGCCAAGCGTGGACAGAGGAACCTCGAGCCCTTTGC
TCCTCCCTCAGAATGAACGGAGACCAGAATTCAGATGTTTATGCCCAAGAAAAGCAGGATTTTCGTTTCAGCACTTC
TCCCAGATCGTTAGGGTGCTGACTGAGGATGAGATGGGGCACCCAGAGATAGGAGATGCTATTGCCCGGCTCAAG
GAGGTCCTGGAGTACAATGCCATTGGAGGCAAGTATAACCGGGGTTTGACGGTGGTAGTAGCATTCCGGGAGCTG
GTGGAGCCAAGGAAACAGGATGCTGATAGTCTCCAGCGGGCCTGGACTGTGGGCTGGTGTGTGGAACCTGCTGCAA
GCTTTCTTCTGGTGGCAGATGACATCATGGATTTCATCCCTTACCGCCGGGGACAGATCTGCTGGTATCAGAAG
CCGGGCGTGGGTTTGGATGCCATCAATGATGCTAACCTCCTGGAAGCATGTATCTACCGCCTGCTGAAGCTCTAT
TGCCGGGAGCAGCCCTATTACCTGAACCTGATCGAGCTCTTCTGCAGAGTTCCTATCAGACTGAGATTGGGCAG
ACCTTGACCTCCTCACAGCCCCCAGGGCAATGTGGATCTTGTTCAGATTCACTGAAAAGAGGTACAAATCTATT
GTCAAGTACAAGACAGCTTTCTACTCCTTCTACCTTCTATAGCTGCAGCCATGTACATGGCAGGAATTGATGGC
GAGAAGGAGCACGCCAATGCCAAGAAGATCCTGCTGGAGATGGGGGAGTTCTTTCAGATTTCAGGATGATTACCTT
GACCTCTTTGGGGACCCAGTGTGACCGGCAAAATTGGCACTGACATCCAGGACAACAAATGCAGCTGGCTGGTG
GTTCACTGTCTGCAACGGGGCCACTCCAGAACAGTACCAGATCCTGAAGGAAAATTACGGGCAGAAGGAGGCTGAG
AAAGTGGCCCGGGTGAAGGCGCTATATGAGGAGCTGGATCTGCCAGCAGTGTTCTTGCAATATGAGGAAGACAGT
TACAGCCACATTATGGCTCTCATTGAACAGTACGCAGCACCCCTGCCCCAGCCGTCTTTCTGGGGCTTGCGCGC
AAAATCTACAAGCGGAGAAAGTGACCTAGAGATTGCAAGGGCGGGGAGAGGAGGCTCTCAATAAATAATCGTGTA
ACCTT.

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FIGURE 423

MPLSRWLRSVGVFLLPAPYWAPRERWLGSLRRPSLVHGYPVLAWSARCWCQAWTEEPRALCSSLRMNGDQNSDV
YAEKQDFVQHFSQIVRVLTEDEMGHPEIGDAIARLKEVLEYNAIGGKYNRGLTVVAFRELVEPRKQDADSLQR
AWTVGWCVELLQAFFLVADDIMDSSLTRRGQICWYQKPGVGLDAINDANLEACIYRLKLYCREQPYYLNLIEL
FLQSSYQTEIGQTLDDLTAPOGNVDLVRFTKRYKSIVKYKTAFYSFYLPAAAMYMAGIDGEGEHANAKKILLE
MGEFFQIQDDYLDLFGDPSTGKIGTDIQDNKCSWLVVQCLQRATPEQYQILKENYGQKEAEKVARVKALYEELD
LPAVFLQYEEDSYSHIMALIEQYAAPLPPAVFLGLARKIYKRRK

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FIGURE 424

GGTAGTTGGTTGTGGGCACTGGGTTAGAGGTATCACGTGGGGGCACTTTCGTCTTAGCTTTTGGACAAGACGCAG
GCGCAACCCACGGCTGCTGCGGGGATCCTTGTGGCCCTTCCGGTCGGTGGAACCAATCCGTGCACAGAGAAGCGG
GGCGAACTGAGGCGAGTGAAAGTGGACTCTGAGGGCTACCGCTACCGCCACTGCTGCGGCAGGGGCGTGGAGGGCA
GAGGGCCGCGGAGGCCGAGTTGCAAACATGGCTCAGAGCAGAGACGGCGGAAACCCGTTTCGCCGAGCCCAGCGA
GCTTGACAACCCCTTTTTCAGGACCCAGCTGTGATCCAGCACCGACCCAGCCGGCAGTATGCCACGCTTGACGTCTA
CAACCCTTTTGAGACCCGGGAGCCACCACCAGCCTATGAGCCTCCAGCCCCTGCCCCATTGCCTCCACCCCTCAGC
TCCCTCCTTGACGCCCTCGAGAAAGCTCAGCCCCACAGAACCCTAAGAACTATGGCTCATACAGCACTCAGGCCTC
AGCTGCAGCAGCCACAGCTGAGCTGCTGAAGAAACAGGAGGAGCTCAACCGGAAGGCAGAGGAGTTGGACCGAAG
GGAGCGAGAGCTGCAGCATGCTGCCCTGGGGGGCACAGCTACTCGACAGAACAAATTGGCCCCCTCTACCTTCTTT
TTGTCCAGTTTCAGCCCTGCTTTTCCAGGACATCTCCATGGAGATCCCCCAAGAATTCAGAAGACTGTATCCAC
CATGTACTACCTCTGGATGTGCAGCACGCTGGCTCTTCTCCTGAACCTTCTCGCCTGCCTGGCCAGCTTCTGTGT
GGAAACCAACAATGGCGCAGGCTTTGGGCTTTCTATCCTCTGGGTCTCTTTTCACTCCCTGCTCCTTTGTCTG
CTGGTACCGCCCCATGTATAAGGCTTTCCGGAGTGACAGTTCAATTCATTTCTTCGTTTCTTCTTCAATTTCTT
CGTCCAGGATGTGCTCTTTGTCTCCAGGCCATTGGTATCCAGGTGGGGATTTCAGTGGCTGGATCTCTGCTCT
GGTGGTGCCGAAGGGCAACACAGCAGTATCCGTGCTCATGCTGCTGGTCGCCCTGCTCTTCACTGGCATTGCTGT
GCTAGGAATTGTATGCTGAAACGGATCCACTCCTTATACCGCCGCACAGGTGCCAGCTTTCAGAAGGCCAGCA
AGAATTTGCTGCTGGTGTCTTCTCCAACCTGCGGTGCGAACCGCAGCTGCCAATGCAGCCGCTGGGGCTGCTGA
AAATGCCTTCCGGGCCCCGTGACCCCTGACTGGGATGCCCTGGCCCTGCTACTTGAGGGAGCTGACTTAGCTCCC
GTCCCTAAGGTCTCTGGGACTTGAGAGACATCACTAACTGATGGCTCCTCCGTAGTGCTCCCAATCCTATGGCC
ATGACTGCTGAACCTGACAGGCGTGTGGGGAGTTCACTGTGACCTAGTCCCCCATCAGGCCACACTGCTGCCAC
CTCTCACACGCCCCAACCCAGCTTCCCTCTGCTGTGCCACGGCTGTTGCTTCGGTTATTTAAATAAAAAGAAAGT
GGAACTGGAAGTGACAAAAA

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FIGURE 425

MAQSRDGGNPFAEPSELDNPFQDPAVIQHRPSRQYATLDVYNPFETREPPPAYEPPAPAPLPPPSAPSLQPSRKL
SPTEPKNYGSYSTQASAAAATAELLKKQEELNRKAEELDRRERELQHAALGGTATRQNNWPPLPSFCPVQPCFFQ
DISMEIPQEFQKTVSTMYYLWMCSTLALLLNFLACLASFCVETNNGAGFGLSILWVLLFTPCSFVCWYRPMYKAF
RSDSSFNFFVFFFIFFVQDVLFLQAIGIPGWGFSGWISALVVPKGNTAVSVLMLLVALLFTGIAVLGIVMLKRI
HSLYRRTGASFQKAQQEFAAGVFSNPAVRTAAANAAAGAAENAFRAP

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FIGURE 426

GGTAGTTGGTTGTGGGCACTGGGTTAGAGGTATCACGTGGGGGCACTTTCGTCTTAGCTTTTGGACAAGACGCAG
GCGCAACCCACGGCTGCTGCGGGGATCCTTGTGGCCCTTCCGGTCGGTGGAACCAATCCGTGCACAGAGAAGCGG
GGCGAAGTGAAGGCGAGTGAAGTGGACTCTGAGGGCTACCGCTACCGCCACTGCTGCGGCAGGGGCGTGAGGGCA
GAGGGCCGCGGAGGCCGAGTTGCAAACATGGCTCAGAGCAGAGACGGCGGAAACCCGTTCCGCCGAGCCCAGCGA
GCTTGACAACCCCTTTTCCAGCCACCACCAGCCTATGAGCCTCCAGCCCCTGCCCATTCCTCCACCCCTCAGCTCC
CTCCTTGACGCCCTCGAGAAAGCTCAGCCCCACAGAACCTAAGAACTATGGCTCATACAGCACTCAGGCCTCAGC
TGCAGCAGCCACAGCTGAGCTGCTGAAGAAACAGGAGGAGCTCAACCGGAAGGCAGAGGAGTTGGACCGAAGGGA
GCGAGAGCTGCAGCATGCTGCCCTGGGGGGCACAGCTACTCGACAGAACAAATTGGCCCCCTCTACCTTCTTTTG
TCCAGTTCAGCCCTGCTTTTTCCAGGACATCTCCATGGAGATCCCCAAGAATTCAGAAGACTGTATCCACCAT
GTACTACCTCTGGATGTGCAGCAGCTGGCTCTTCTCCTGAACCTTCCTCGCCTGCCTGGCCAGCTTCTGTGTGA
AACCAACAATGGCGCAGGCTTTGGGCTTTCTATCCTCTGGGTCTCCTTTTCACTCCCTGCTCCTTTGTCTGCTG
GTACCGCCCCATGTATAAGGCTTTCCGGAGTGACAGTTTCAATTTCTTCGTTTTCTTCTTCAATTTCTTCGT
CCAGGATGTGCTCTTTGTCTCCAGGCCATTGGTATCCCAGGTTGGGGATTCACTGGCTGGATCTCTGCTCTGGT
GGTGCCGAAGGGCAACACAGCAGTATCCGTGCTCATGCTGCTGGTCGCCCTGCTCTTCACTGGCATTGCTGTGCT
AGGAATTGTATGCTGAAACGGATCCACTCCTTATACCGCCGCACAGGTGCCAGCTTTCAGAAGGCCAGCAAGA
ATTTGCTGCTGGTGTCTTCTCCAACCTGCGGTGCGAACCGCAGCTGCCAATGCAGCCGCTGGGGCTGCTGAAAA
TGCCTTCCGGGCCCCGTGACCCCTGACTGGGATGCCCTGGCCCTGCTACTTGAGGGAGCTGACTTAGCTCCCGTC
CCTAAGGTCTCTGGGACTTGGAGAGACATCACTAACTGATGGCTCCTCCGTAGTGCTCCCAATCCTATGGCCATG
ACTGCTGAACCTGACAGGCGTGTGGGGAGTTCACTGTGACCTAGTCCCCCATCAGGCCACACTGCTGCCACCTC
TCACACGCCCCAACCCAGCTTCCCTCTGCTGTGCCACGGCTGTTGCTTCGGTTATTTAAATAAAAAGAAAGTGA
ACTGGAAGTGAATAAAAAAAAAAAAAA

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FIGURE 427

MAQSRDGGNPFAEPSELDNPFQPPPAYEPPAPAPLPPPSAPSLQPSRKLSPTTEPKNYGSYSTQASAAAATAELLK
KQEELNRKAEELDRRERELQHAALGGTATRQNNWPPLPSFCPVQPCFFQDISMEIPQEFQKTVSTMYYLWMCSTL
ALLLNFLACLASFVETNNGAGFGLSILWVLLFTPCSFVCWYRPMYKAFRSDSSFNFFVFFFIFFVQDVLFLQA
IGIPGWGFSGWISALVVPKGNTAVSVLMLLVALLFTGIAVLGIVMLKRIHSLYRRTGASFQKAQQEFAAGVFSNP
AVRTAAANAAAGAAENAFRAP

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FIGURE 428

CCTGCGGCAGCCGGAGCTCGGGGAGCGGAGCGTGGTGGGGAGGGGAGCGGGACAGGCGACACAGGAGACAGCGGC
GCCGCGGCCTCTCCCCACCAGGCGGCCCCGGATCCTACTGGACGCCCTGAGGGCACACCGACCGCGCCTCTAGAG
TCACCCACGCGGACCCCTCCCTCTTCTCTAGACTTATTTCCATCCTTCCCGCTTTTACCCTCCCCACCCGTC
CTGGGCTCCAGGCGCGCGCCCCCTCTCACTCCTGGACCGGCCCTTCTCGGTGCCCTCTTCCCTAGGGAGATGC
GATGAGCCGGTGCCCCCGCGTCTCATCGTCGCCCCGGGCACGGTGCCCGTCCAGTGCCCGTGGTGGGGAGGGAG
CACTCCGCGGTCCCTCCGTGACGCCCCCTCGCTTGGCCCCCCCCACAGCTGGCGTCCCTCGGCCATGCCCCAGGGG
ACCCAGCCAGGGGGTGGGCTCTAGAGCGAGTGGGTGGAGAGGAGAAAGGACGGGGCCTTGGGGGCCTCTGAGAT
GCTCCCAAGTGCCAGGGAGGGCCGAGCGAGGCGCAGGCAACCGGGCAGCAGGCATGATGCCCTCGCCTAGTGA
CCAGCCGCTCGCTGACCAGCGGCCAGCACCAGGGGCCCTTACCCACCTCCGCTCCACCGACCTGGCTGCAGG
CCCTGCTTACGCTGGGGCTGGTCCAAGTGCTCCTGGGCATCCTGGTGGTACCTTCAGCATGGTGGCCTCTTCCG
TCACCACCACCGAGAGCATCAAGAGGTCTGCCCCGTCTTGGGCTGGGTTCCTCGCTGGCGTTCTCCGGGTGGT
GCATTGTGCTGGAAGCGGCCATTCACTCTAGTGATCTCCTTCTTCTCCTTGCTTTCGGTGCTCTGTGTCATGC
TTAGCATGGCTGGCTCTGTCTCTCTCTGTAAGAATGTCAACTGGCCCCGAGACTTCCAACAGTGCTCTCTGGAAG
GAAAGGTCTGTGTGTGTGTCTCTCTGTTCCCTCTCTCCGGCCCTGTCCAGAGTCGGGGCAGGAAGTGAAGTTG
CCCCAACTCCACCTGTGATGAAGCCCCAGGGGGCCCTCAAGAACCTGCTCTTCAGCGTCTGTGGGCTCACCATT
GTGCCGCTATAATCTGTACACTCTCTGCTATTGTCTGCTGCATCCAAATCTTCTCCCTGGACCTCGTGCATACGC
AGCTGGCCCCCTGAGCGGTCACTCTCAGGCCCCACTGGGACCTCTGGGCTGCACGTCCCCGCCCCAGCCCCCTCTC
TACACACCATGCTGGACCTGGAGGAATTTGTCCCGCCTGTGCCCCACCGCCCTACTATCCCCAGAGTATACCT
GCAGCTCAGAAACAGATGCACAGAGCATCAGGTACAATGGCTCCATGGACAGCCAGTGGCCTTGTACCCTACCG
ATTGCCCCCTTCTTATGAGGCAGTCATGGGACTACGAGGAGACAGCCAGGCCACTCTCTTTGACCTCAGCTTC
ACGATGGCTCGTGATCTGTGAACGAGTGGCTCCATTGTAGACGTGTCCATGGACAGCGGGTCTCTGGTGTGT
CAGCCATTGGTGACCTCCCTGGGGGCTCTAGCCCGTCGGAGGACTCGTGCTGTGGAGCTGCAGGGCTCCGTGC
GCTCCGTGGACTACGTTCTCTTTCTGCTCCATCCAGCGCAGCCGTGCCGGCTACTGCCTCAGCTGGACTGTGGCC
TGCGGGGCCCCCTTCGAGGAAAGCCCCCTGCCACGGCGCCCCCACGGGCTGCCCGCTCTATTCTGCTCTGCC
CTGAAGCTCCACCCCCACTGGGTGCCCCCACAGCTGCCCCGAGCTGCCACCGGTGGAGGGCTGGCGCCCTGGG
TGGGACCTGCTTCCCCGAGCTGAGGCGGCGGGTCCCCGGGGAGGGGGCGCCAGCCGACGCCCGCCACCC
GAGCCCCGACTCGTCGCTTCAGCGATAGCTCAGGTTCCCTCACCCACCGGGGCACCGGCTCCTCATCCGGCAT
CCCCACCACCGCTGCTGCTGCCACGGTCCCACAGCGACCCAGGCATCACGACCTCCAGTGACACTGCTGACTTCA
GGGACCTTTATACCAAAGTGCTTGAGGAAGAAGCTGCTTCTGTTTCTCTGCAGATACAGGGCTCTGCTCTGAAG
CCTGCTCTTCCGCTAGCCCGCTGCCCTTCCCCAAGTTGCTACGTGCCGGTCAGCCGAGAAACGGCGCCCTG
TGCCACCTTCCAAAAGTTCCCTGCCCTCGGGCCCTGCACCTGCCACTCCCTGGGGGACCTAAAGGGCAGCT
GGCCAGGTCGGGGCCTGGTCACTCGTTTCTTCCAGATATCCAGGAAAGCCCCAGACCCAGTGGGACTGGAGCTC
ATGGACATAAGCAGGTGCCCCGAGCCTGTGGGGCCGGCCTGGCCGAGAGAGCCTCCACCTTCGACGCTGCGGAG
ATCTGAGCTCTAGCTCTTCCCTGCGGCGTCTCCTGTCTGGCCGAGGCTGGAGCGTGGTACCCGCCCCACAGCC
TCAGCCTCAACGGGGGCAGCCGGGAGACTGGGCTCTGACCTAGGCTTCTTGTCACTGAACACATCCAGCCACA
GGCACCAGCTGGTTGGGACCAGCAGCCCCAGCATCCTCTTGCACTGGCTGGCACAAAAGAAACCTGCTGTATA
CCCCCAAAGTGCTCCCTTCCCTCCTACCTCTGGGGTCTCTTGTGCTTGCCTCTGCTGCTCTGGTCTGGGAGAG
CTTCTGTCTGTGCTGCATGGGTATTTAGACTGTGGGGAGATGCCCCCTTCTTATAGCACTGGAGGAGAAACA
AATTCTTGTCCCCCTCAGAATGAGAGTGGCTCTTCTGATTTGCAAGGGCACTATGGTCAGGGCAAAGGCATGGC
CCAGGTGTTTAAGTACAGGTGACGTGTGCCTATGCAATGGGGTGGTAAGGCAGGCACGAAGAGTCCAAAAATC
TAGGTGGCCTCTCAGCTCTGCCACCTCTAGCTGCATGACCTTGGGCAAGCTATGTAACCCCAATTGCCCTGCTCCA
TTAAAGACTGTGAAGGTAGATGTTGTAAAGCTCTAACAGTATGTAAGCCTTCAATAAATTTAGTTTTCCC
TT

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FIGURE 429

MMPSPSDSSRSLTSRPSTRGLTHLRLHRPWLQALLTLGLVQVLLGILVVTFSMVASSVTTTESIKRSCPSWAGFS
LAFSGVVGIVSWKRPF TLVISFFSLLSVLCVMLSMAGSVLSCKNAQLARDFQQCSLEGKVCVCCPSVPLLRCPE
SGQELKVAPNSTCDEARGALKNLLFSVCLTICAAI ICTLSAIVCCI QIFSLDLVHTQLAPERSVSGPLGPLGCT
SPPAPLLHTMLDLEEFVPPVPPPPYPPEYTCSETDAQSITYNGSMDSVPVLYPTDCPPSYEAVMGLRGDSQA
TLFDPQLHDGSCICERVASIVDVSMDSGLVLSAIGDLPGGSSPSEDSCLLELQGSVRSVDYVLFRSIQRSRAGY
CLSLDCGLRGPFEE SPLPRRPPRAARSYSCSAPEAPPPLGAPTAARSCHRLEGWPPWVGPCFP ELRRRVPRGGGR
PAAAPPTRAPTRRFSDSSGSLTPPGHRPPHPASPPLLLPRSHSDPGITTSSDTADFRDLYTKVLEEEAASVSSA
DTGLCSEACLFRLARCPSPKLLRARS AEKRRPVPTFQKVPLPSGPAPAHSLGDLKGSWPGRGLVTRFLQISRKAP
DPSGTGAHG HKQVPRSLWGRFGRESLHLRSCGDLSSSSSLRRLLSGRRLERGTRPHSLSLNGGSRETGL

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FIGURE 430

CAGTGCCCCACAGCTCTTCAGGCCCTTCCTGTGCCTGGCTGCCCTCCCACCCTACCCTTTTGTACCTCTGAGAAG
GCTCTGGCCCCACGCACAGCCCCACTGTACACAGGGCCAGTATCTGTCTCAGGGACCTCCTATCCAGAGCCTGAG
CCAGCCCCAGCCCCAGCCCCAGCTCCAGCTGCTCCATCTGAACCTGTATCTTCTTCCAAGCCACCCATTACCCTC
TTGGAGTCAGACTCACGCATCTCCAAAGAAGAACTTTTGAGAGCCCAGGCGCTGAGAGAGCAGGGTCAGACACTC
CCGAGCCTCTCGGTACAGCTGTAGGGGCGACACAGGTAGGCTTGCAGCTGCGGGAACAGTGCCACCTCCGCACCT
AAGCACTCCCATTCCTGGCCAGCATCCTTGGGGCTCATCTCATACAATAGCCCCCGGTCTCAGAGCTACCTCCTT
CTCCAGCTCTTCTCGTCTCAGGCCTGTGCTCCCCAGTCAGCAGCTGTAGCCGTTCCATGTACTGCCGCTGCAT
GCGGCCAGGCAGGAAGAAGTTGAGGGGAAAGGGCATAAGCCTCTGCATACCACTTCCGGGTCACTTCTACGTAGTT
CTTGGTGTCTATCCAAAAAGTATGTACCTGGATTGGGTGGGCAGGAAGAAACAGGCAGGTCTGAGCCAGTGCACC
TGTCTGATTCAAGGTGGGCTTCTGACCTCCATGCTCTCCTGAGTCTCTGTGTGGGTCTGTGTGTTCCCGTCCCTT
CCCCGGCTGGCCATGGATGCTGGGAGGTCTGGGCACACTACCAGCACCGGGATCAACTTCTCCTCCAGGAGAGA
CATGAAGGCCAGGGTGTCTGCCCCCTGCTGAGCTGACAGATCATAATCAGCATTGTACTTCTGTGGAGGAAATAT
CCATGGCGTGGACGCTGGGGAGCTGCAAGGGCACTTCACCAGGGAGGAAGGAGTCTGTCTGGTACCCCCCTCAC
TGGCCTCTGAGTGCAGTGGAGGTACAGCAAGGAACTTTTCCTGCCAAGGCCCCCTTGCCTGGGCCCAGCCAGTAG
CCTGTTGCTGTGTCAAAAAGCCTGGGCCTTGGAGCCCGCTGGCCGTCAAGGTCTGGGCCATTGAGAAGAAGG
AAGAAAGGTTGGGCCGCAAACTAGGAGCAGCTCCCAGAATTTCCATGGAAAGCTGGAACAATGCCTGCTGACAGC
AACTTTCTAACAGTAACTTTCCCGACCCAGACACCACAAAGCTAGCACAAACGGAGCTCAGATGCAGGCTAGGACT
CGGTCCATGCCTCAGGAACCAGGGAAAGCCATCCTCACACTCCCTGGATCCAGGGAACCCACGCCCAGGGCCCCC
CAGCTTGTTCCCTCAGTGCCAGCTCTTGGCTATTTCTTTCACTTCATTCCATCGCCCAGACACCATTACCACAT
ACACATTCCATCCATACCCCCAGGTCTCAGCCTGCCCTACCTTCCCAGGCTCCAGTCCCTGTTCCTCAGCATCCC
CCACCACATCCTGAGTAAGCTTTGTCCCCAGATAACCTCTTCAGCATGATCCTTAAATCTCCCTAAGCCTCAGTT
TCTCCCCTGTGGAAATGGGGGTAAGAATCTCTTTCTCTGAATGCCCCCTGTGTTAGGAAATAATTTAGAATACTTCG
GAAACAAAAAGCTCTGTTTACACCTAAGCAATCAGGGCAGTGGCCCTGGCCTTGCCAGGAACTTAGGCTTTTATC
TGGATCCTCTTTCCAGGCCTCTCAATTAATTTCCCCAGGTCCTTAACCTTTGGGAAATTAGAAATTAGGAAGAGTG
TCCCACCTTCTGACACTGTGTTCCCTCTTGAACCTGACCGTCAATGCTAGAAGAACCCTTGGAACATGCTGGC
CCAGCCCTCTAGTTTACAAATAAGGGAGTGACAGCCCTGAGAGGTTACATGGCCTGCCCAAGATCACGCAGTC
AATGGCAGAGTAAAGAGCATAGCCTAGGCCTCCCCACTCCTCTAGTAATGCTCTTTCATCTTCTCCAACCTGGCT
CTAAGCCTTGTCCATCCTGAGCCCCATATCTAGCCCAACCTAGTCCCTGAAAACAAGAAGTGGCCCTTAGAAATC
TCTCTCCAGTCCCACTATCAGAGGCCAACTGCTGTCTCCAGTCTCCTTCAGCCTGTGCTCCTCTCCCTCCCTGA
CTGACAGGCAGAAGGTACCGTGCCTCTGGATATCCCCACAGTGCCCTGAGCTGCATCTCTTGCCGACTGCTTTAA
TACATCACAGTGACATTGTGTGTGCTCTGCCACCAGACTATTGCTCCTTGATGCTCTGGGTACCTGCATCTAG
CATGGCATATATCTAGTGCTCAATAAATGTGTATTGTACGG

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FIGURE 431

MAWTLGSCKGTSPGRKESCLVPPSLASECSGGTARNFSCQGPLAWAQPVACCCWQKAWALEPAGRQGPPIEKKE
ERLGRKLGAAPRISMESWNNAC

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FIGURE 432

AAGCCCCAGCCCGGCCTCCGCTCCGGCCGCCGCCACCGCCCCTGTTTTGTTTCCATGGCGACAGGCGGCGCAGGG
CCCGCTCCAAACATAACGCGCTGTGGAAAACATGCTGCTCGGGGGACCCCCCGCAGTCCCCGCTCGGGGACGAG
CCCCAAGGGGCCCTGGAGCAGTACAGGCCACGTGCAGTTTGGCAAGAGCCCCCAGACCTGGCCCAGGCGCACAAAG
ACCCCGCTCTCCAGAGCCTGCCGCGCCTTCAAGGGTTTCGGGGCTCCACTTGGACGAGGCGCCTGACTCTCCGAG
GCGCGCCGGGCCGACAGCGCTGTCCGCTACGTGGGCCACCTCTGGATGGGCCGGCGGCCGCCCTCCCCGAGGC
CCGCGGCCCAGTCCCCCGCAGTTTCACTGCCAGTTCGGGCCAGAGAAGCCTCGCCTCCCCGGGGATCTCCCCAGG
CCCCCTGACCGCAACGATCGGAGGGGCGGTGGCGGGGGCGGGCCCAGGCAGGGGAGGGCAGAAGCACACAAGGA
AGTGTTCGGGACAGAGGGTGGGCAAGATGGCGGCGCCCATGGAGCTGTTCTGCTGGTCAGGGGGCTGGGGGCT
GCCGTCACTGGACCTGGACAGCCTGGCCGTGCTGACCTATGCCAGATTTACTGGTGCTCCACTGAAGGTACACAA
GATCAGCAACCCCTGGCAGAGCCCTTCAGGAACCTCTGCCTGCCCTTCGGACCAGTCATGGAGAGGTCACTCAGT
TCCACACAAGATCATCACCCACCTTCGAAAAGAGGTACATACTTTTGGATAGACACCAAGAACTACGTGGAAGT
GACCCGGAAGTGGTATGCAGAGGCTATGCCCTTCCCCCTCAACTTCTTCTGCTGGCCGCATGCAGCGGCAGTA
CATGGAACGGCTACAGCTGCTGACTGGGGAGCACAGGCCTGAGGACGAGGAAGAGCTGGAGAAGGAGCTGTACCG
AGAGGCTCGGGAGTGTCTGACCCTGCTCTCTCAGCGCCTGGGCTCTCAAAAGTTCTTCTTTGGAGATGCCCTGC
CTCCTTGGACGCCTTCGTCTTCAGCTACTTGGCCCTGCTGCTGCAGGCAAAGCTGCCCAGTGGGAAGCTGCAGGT
CCACCTGCGTGGGCTGCACAACCTCTGTGCCTATTGTACCCACATTCTCAGTCTCTACTTCCCCTGGGATGGAGC
TGAGGTACCACCGCAACGCCAGACACCAGCAGGCCAGAGACTGAGTGAGTGAGCCATACCGGCGCCGGAACAG
ATCCTATCTGTGCTGGCAGTGAAGTGGCAGCCATGGTGGGCTACGCCTTGCTCAGCGGCATTGTCTCCATCCAGCG
GGCAACGCCTGCTCGTGGCCCCAGGCACCCGGACCCTGGGCATGGCTGAGGAGGATGAAGAGGAATGATTTGTCC
TCACGCTCCCAAGACTGGTTTTTCTACTCTCATGCATTCCAGAGGCCCCCGTGCCTCCTCGTTGTTGGTACAGCC
GGACACGGGGTGTGCCACCCAGAATAAAGCCACTCACACTG

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FIGURE 433

GCCGGAAGCGCGGAGACCATGTAGTGAGACCCTCGCGAGGTCTGAGAGTCACTGGAGCTACCAGAAGCATCAT
GGGGCCCTGGGGAGAGCCAGAGCTCCTGGTGTGGCGCCCCGAGGCGGTAGCTTCAGAGCCTCCAGTGCCTGTGGG
GCTGGAGGTGAAGTTGGGGGCCCTGGTGCTGCTGCTGGTGCTCACCCTCCTCTGCAGCCTGGTGCCCATCTGTGT
GCTGCGCCGGCCAGGAGCTAACCATGAAGGCTCAGCTTCCCGCCAGAAAGCCCTGAGCCTAGTAAGCTGTTTCGC
GGGGGGCGTCTTTTTGGCCACTTGCTCCTGGACCTGCTGCCTGACTACCTGGCTGCCATAGATGAGGCCCTGGC
AGCCTTGACGCTGACGCTCCAGTTCCTCACTGCAAGAGTTCATCCTGGCCATGGGCTTCTTCCTGGTCTGTGTGAT
GGAGCAGATCACACTGGCTTACAAGGAGCAGTCAGGGCCGTACCTCTGGAGGAAACAAGGGCTCTGCTGGGAAC
AGTGAATGGTGGGCGCAGCATTGGCATGATGGGCCAGGGGTCCCACAGGCGAGTGGAGCCCCAGCAACCCCTC
AGCCTTGCGTGCCTGTGTACTGGTGTCTCCCTGGCCCTCCACTCCGTGTTTCGAGGGGCTGGCGGTAGGGCTGCA
GCGAGACCGGGCTCGGGCCATGGAGCTGTGCCTGGCTTTGCTGCTCCACAAGGGCATCCTGGCTGTGAGCCTGTC
CCTGCGGCTGTTGAGAGCCACCTTAGGGCACAGGTGGTGGCTGGCTGTGGGATCCTCTTCTCATGATGACACC
TCTAGGCATCGGGCTGGGTGCAGCTCTGGCAGAGTCGGCAGGACCTCTGCACCAGCTGGCCAGTCTGTGCTAGA
GGGCATGGCAGCTGGCACCTTTCTCTATATCACCTTTCTGGAATCCTGCCCCAGGAGCTGGCCAGTCTGTAGCA
AAGGATCCTCAAGGTCATTCTGCTCCTAGCAGGCTTTGCCCTGCTCACTGGCCTGCTCTTCATCCAAATCTAGGG
GGCTTCAAGAGAGGGGCAGGGGAGATTGATGATCAGGTGCCCCTGTTCTCCCTTCCCTCCCCCAGTTGTGGGGAA
TAGGAAGGAAAGGGGAAGGGAAATACTGAGGACCAAAAAGTTCTCTGGGAGCTAAAGATAGAGCCTTTGGGGCTA
TCTGACTAATGAGAGGGAAGTGGGCAGACAAGAGGCTGGCCCCAGTCCCAAGGAACAAGAGATGGTCAAGTCGCT
AGAGACATATCAGGGGACATTAGGATTGGGGAAGACACTTGACTGCTAGAATCAGAGGTTGGACACTATACATAA
GGACAGGCTCACATGGGAGGCTGGAGGTGGGTACCCAGCTGCTGTGGAACGGGTATGGACAGGTCATAAACCTAG
AGTCAGTGTCTGTGGTCTAGCCCATTTAGCACCTGCCACTTGAGTGGACCCCTCCTACTCTTCTTAGCG
CCTACCCCTCATACCTATCTCCCTCCTCCCATCTCCTAGGGGACTGGCGCCAAATGGTCTCTCCCTGCCAATTTG
GTATCTTCTCTGGCCTCTCCAGTCTGCTTACTCCTCTATTTTTAAAGTGCCAAACAAATCCCTTCTCTTTCT
CAAAGCACAGTAATGTGGCACTGAGCCCTACCCAGCACCTCAGTGAAGGGGGCCTGCTTGCTCTTTATTTTGGTC
CCGGATCCTGGGGTGGGGCAGAAATATTTCTGGGCTGGGGTAGGAGGAAGGTTGTTGCAGCCATCTACTGCTGC
TGTACCCTAGGAATATGGGGACATGGACATGGTGTCCCATGCCAGATGATAAACTGAGCTGCCAAAACATTT
TTTTAAATACACCCGAGGAGCCCAAGGGGAAGGGCAATGCCTACCCCCAGCGTTATTTTGGGGAGGGAGGGCT
GTGCATAGGGACATATTCTTTAGAATCTATTTTATTAAGTACCTGTTTGGGACCTGTTACCCAAATAAAGAT
GTTTCTAG

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FIGURE 434

AGAAAGAAAAGGTGTAGTGTGTTGGGGAGGTCAACGGGCTATGCTGGCTTGACAGGGCTGGGCTCTTCAGAACAGA
AGCATGGATCTCGGAATCCCTGACCTGCTGGACGCGTGGCTGGAGCCCCAGAGGATATCTTCTCGACAGGATCC
GTCCTGGAGCTGGGACTCCACTGCCCCCTCCAGAGGTTCCGGTAACTAGGCTACAGGAACAGGGACTGCAAGGC
TGGAAGTCCGGTGGGGACCGTGGCTGTGGCCTTCAAGAGAGTGAGCCTGAAGATTTCTTGAAGCTTTTCATTGAT
CCCAATGAGGTGTACTGCTCAGAAGCATCTCCTGGCAGTGACAGTGGCATCTCTGAGGACCCCTGCCATCCAGAC
AGTCCCCCTGCCCCAGGGCAACCAGTTCTCCTATGCTCTATGAGGTTGTCTATGAGGCAGGGGCCCTGGAGAGG
ATGCAGGGGGAAACTGGGCCAAATGTAGGCCTTATCTCCATCCAGCTAGATCAGTGGAGCCCAGCATTATGGTG
CCTGATTCCCTGCATGGTCAGTGAGCTGCCCTTTGATGCTCATGCCACATCCTGCCCAGAGCAGGCACCGTAGCC
CCAGTGGCCTGTACAACCCTGCTGCCCTGTCAAACCCTGTTCCCTGACCGATGAGGAGAAGCGTCTGCTGGGGCAG
GAAGGGGTTTTCCCTGCCCTCTCACCTGCCCCCTCACCAGGCAGAGGAGAGGGTCTCAAGAAGGTGAGGAGGAAA
ATCCGTAACAAGCAGTCAGCTCAGGACAGTCGGCGCGGAAGAAGGAGTACATTGATGGGCTGGAGAGCAGGGTG
GCAGCCTGTTCTGCACAGAACCAGAATTACAGAAAAAGTCCAGGAGCTGGAGAGGCACAACATCTCCTTGGTA
GCTCAGCTCCGCCAGCTGCAGACGCTAATTGCTCAAACCTTCCAACAAAGCTGCCCAGACCAGCACTTGTGTTTG
ATTCTTCTTTTTTCCCTGGCTCTCATCATCCTGCCCAGCTTCAGTCCATTCCAGAGTCGACCAGAAGCTGGGTCT
GAGGATTACCAGCTCACGGAGTGACTTCCAGAAATATCCTGACCCACAAGGACGTAACAGAAAATCTGGAGACC
CAAGTGGTAGAGTCCAGACTGAGGGAGCCACCTGGAGCCAAGGATGCAAATGGCTCAACAAGGACACTGCTTGAG
AAGATGGGAGGGAAGCCAAGACCCAGTGGGCGCATCCGGTCCGTGCTGCATGCAGATGAGATGTGAGCTGGAACA
GACCTTCCTGGCCCACTTCCTGATCACAAGGAATCCTGGGCTTCCTTATGGCTTTGCTTCCCACTGGGATTCCCTA
CTTAGGTGTCTGCCCTCAGGGGTCCAAATCACTTCAGGACACCCCAAGAGATGTCCTTTAGTCTCTGCCTGAGGC
CTAGTCTGCATTTGTTTGCATATATGAGAGGGTACCTCAAATACTTCTGTTATGTATCTGTGATTTTATTTCTTC
TTTGGGTATAGGGTTGAGGGGAAATAAGTTTTGAGTGAGAAATAAACGTTTTAGCTGAAATTGT

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FIGURE 435

MDLGIPDLLDAWLEPPEDIFSTGSVLELGLHCPPPEVPVTRLQEQGLQGWSGGDRGCGLQESEPEDFLKLFIDP
NEVYCSEASPGSDSGISEDPCHPDSPPAPRATSSPMLYEVVYEAGALERMQGETGPNVGLISIQLDQWSPAFMVP
DSCMVSELPFDAHAHILPRAGTVAPVPCTTLLPCQTLFLTDEEKRLLGQEGVSLPSHLPLTKAEERVLLKKVRRKI
RNKQSAQDSRRRKKEYIDGLESRVAACSAQNQELQKKVQELERHNISLVAQLRQLQTLIAQTSNKAQTSTCVLI
LLFSLALIILPSFSPFQSRPEAGSEDYQPHGVTSRNLTTHKDV TENLETQVVESRLREPPGAKDANGSTRTLLEK
MGGKPRPSGRIRSVLHADEM

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FIGURE 436

GCGAGGCGCCACCGACGCGGAAGACTATAAGCCCCAGCGGGCGACGACCGAACGCCCCCGGGAACACCGGGCCCC
GAGCTCGGTCCCGCGCCCCGAGGATCCTCCACGGGGCTAGATGGCTGCGTCGGGGGCGGGAGCGGAGGTGAGCGGG
CGCTAGGGCCGCGAGCCCCCGCGGCCCTTCCTCCAGCGCCCTGCGGACCCCGCAGAAGGCGCTCGCCTCCCTAG
CCCGCAAAAACATATCGATTTTTCTCGCTGTGGCAACGGGGACGTCCTGATAGATCCTCTGCTCCAATAGGCAAC
TCCGGCCTTCCCTGCCCTGACCTGGAACCTCTGGGAGGGCTGCAGAGTAAGTCCCGCCTCTGCGCTCCGACGGAG
GCACGAGGCCTGTGGAGTAGGTCCCTCTGTTCCGACAGGTGCGACACTTGGCGCTCCATGCTTGCGGGTGCCGGG
AGGCCTGGCCTCCCCCAGGGCCGCCACCTCTGCTGGTTGCTCTGTGCTTTCACCTTAAAGCTCTGCCAAGCAGAG
GCTCCCGTGCAGGAAGAGAAGCTGTCAGCAAGCACCTCAAATTTGCCATGCTGGCTGGTGGAGAGTTTGTGGTA
GCAGAAGAGTGCTCTCCATGCTCTAATTTCCGGGCTAAACTACCCCTGAGTGTGGTCCCACAGGATATGTAGAG
AAAATCACATGCAGCTCATCTAAGAGAAATGAGTTCAAAGCTGCCGCTCAGCTTTGATGGAAACAACGCTTATTT
TGGAAGTTCGAAGGGGCTGTCGTGTGTGTGGCCCTGATCTTCGCTTGTCTTGTGCATCATTGTCAGCGACAATTG
GACAGAAAGGCTCTGGAAAAGGTCCGGAAGCAAATCGAGTCCATATAGCTACATTCCACCCTTGTATCCTGGGTC
TTAGAGACCCTATCTCAGACAGTGAAAGTGAAATGGACTGATTTGCACTCTTGGTTCTTTGGAGCCTTGTGGTGG
AATCCCCTTTTCCCATCTTCTTCTTTCAGATCATTAAATGAGCAGAATAAAAAGAGTAAAATGGT

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FIGURE 437

MLAGAGRPGLPQGRHLCWLLCAFTLKLCQAEAPVQEEKLSASTSNLPCWLVEEFVVAEECSPCSNFRAKTTPECG
PTGYVEKITCSSSKRNEFKSCRSALMEQRLFWKFEHAVVCVALIFACLVIIIRQQLDRKALEKVRKQIESI

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FIGURE 438

GAATTCGAGGATCCGGGTACCATGGGAGGAAAACCTTCTTCTGGCCTGGGCTCCGTGCCGCTCTGTTTGCCAACC
GTCCAGTCCCGCCTACCAAGTGCCGGGCGCTCCCCACCCCTCCCCCGGCTCCCCCGGTGTCCGCCATGGCCAAAGC
CTACGACCACCTCTTCAAGTTGCTGCTGATCGGGGACTCGGGGGTGGGCAAGACTTGTCTGATCATTGCTTTGC
AGAGGACAACTTCAACAACACTTACATCTCCACCATCGGAATTGATTTCAGATCCGCACTGTGGATATAGAGGG
GAAGAAGATCAAACATAAGTCTGGGACACGGCTGGCCAAGAGCGGTTCAAGACAATAACTACTGCCTACTACCG
TGGAGCCATGGGCATTATCCTAGTATACGACATCACGGATGAGAAATCTTTCGAGAATATTCAGAACTGGATGAA
AAGCATCAAGGAGAATGCCTCGGCTGGGGTGGAGCGCCTCTTGCTGGGGAACAAATGTGACATGGAGGCCAAGAG
GAAGGTGCAGAAGGAGCAGGCCGATAAGTTGGCTCGAGAGCATGGAATCCGATTTTTTCGAAACTAGTGCTAAATC
CAGTATGAATGTGGATGAGGCTTTTAGTTCCCTGGCCCGGGACATCTTGCTCAAGTCAGGAGGCCGGAGATCAGG
AAACGGCAACAAGCCTCCCACTACTGACCTGAAAACCTTGACACAAGAAGAACACCAACAAGTGCTCCCTGGGCTG
AGGACCCTTTCTTGCTCCCAACCCCGGAAGCTGAACCTGAGGGAGACAACGGCAGAGGGAGTGAGCAGGGGAGA
AATAGCAGAGGGGCTTGGAGGGTCACATAGGTAGATGTTAAAGAGAATGAGGAGAAAAAGGAGAAAAGGGAAAAAG
CAGAAAAGGAAAAAAGGAAGAGAGAGGAAGGGAGAAGGGAGAGGAATGAATTGAGGAAGTGAAGAAGGCAAGGA
GGTAGGAAGAGAGGGAGGAGGAAAGGAAGGAGAGAGATGCCTCAGGCTTCAGACCTTACCTGGGTTTTTCAGGGCA
AACATAAATGTAAATACACTGATTTATTCTGTTACTAGATCAGGTTTTAGGGTCCTGCAAAAGGCTAGCTCGGCA
CTACACTAGGGAATTTGCTCCTGTTCTGTCACTTGTCATGGTCTTTCTTGGTATTAAAGGCCACCATTTCACAA
AAAAAAAAAAAAACCATGGTACCCGGATCCTCGAATTC

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FIGURE 439

MAKAYDHLFKLLIGDSGVGKTCLIIRFAEDNFNNTYISTIGIDFKIRTVDIEGKKIKLQVWDTAGQERFKTITT
AYYRGAMGIILVYDITDEKSFENIQNWMKSIKENASAGVERLLGNKCDMEAKRKVQKEQADKLAREHGIRFFET
SAKSSMNVDEAFSSLARDILLKSGGRRSGNGNKPSTDCLKTCDKKNTNKCSLG

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FIGURE 440

CCTTTCCGGCGGTGACGACCTACGCACACGAGAACATGCCTCTCGCAAAGGATCTCCTTCATCCCTCTCCAGAAG
AGGAGAAGAGGAAACACAAGAAGAAACGCCTGGTGCAGAGCCCCAATTCCTACTTCATGGATGTGAAATGCCAG
GATGCTATAAAATCACCACGGTCTTTAGCCATGCACAAACGGTAGTTTTGTGTGTTGGCTGCTCCACTGTCTCT
GCCAGCCTACAGGAGGAAAAGCAAGGCTTACAGAAGGATGTTTCCTTCAGGAGGAAGCAGCACTTAAAAGCACTCTG
AGTCAAGATGAGTGGGAAACCATCTCAATAAACACATTTTGGAT

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FIGURE 441

MPLAKDLLHPSPEEEKRRKHKKKRLVQSPNSYFMDVKCPGCKITTTFSHAQTVVLCVGCSTVLCQPTGGKARLTE
GCSFRRKQH

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FIGURE 442

ACTCAGGCAGCAGCCCCTTCTTTCTTGCCCCAGTCTCCAGTTCTCCAGTGTTACAGGTGAGCCTACCAACAGCC
ACTGCTCATGATGGAGGCCATCAAGAAAAAGATGCAGATGCTGAAGTTAGACAAGGAGAATGCTCTGGATCGGGC
AGAGCAAGCTGAAGCTGAGCAGAAGCAGGCAGAAGAAAGAAGTAAACAGCTGGAGGATGAGCTGGCAGCCATGCA
GAAGAAGCTGAAAGGGACAGAGGATGAGCTGGACAAGTATTCTGAAGCTTTGAAGGATGCCCAGGAGAAGCTGGA
ACTGGCAGAGAAGAAGGCTGCTGATGCTGAGGCTGAGGTGGCCTCCTTGAACCGTAGGATCCAGCTGGTTGAAGA
AGAGCTGGACCGTGCTCAGGAGCGCCTGGCCACTGCCCTGCAAAAGCTGGAAGAAGCTGAAAAAGCTGCTGATGA
GAGTGAGAGAGGTATGAAGGTTATTGAAAACCGGGCCTTAAAGATGAAGAAAAGATGGAATCCAGGAAATCCA
ACTCAAAGAAGCTAAGCACATTGCAGAAGAGGCAGATAGGAAGTATGAAGAGGTGGCTCGTAAGTTGGTGATCAT
TGAAGGAGACTTGGAACGCACAGAGGAACGAGCTGAGCTGGCAGAGTCTAAGTGTTCTGAGCTGGAGGAGGAGCT
GAAGAATGTCACCAACAACCTCAAGTCTCTTGAGGCTCAGGCGGAGAAGTACTCTCAAAAAGAAGATAAATATGA
GGAAGAAATCAAGATTCTTACTGATAAACTCAAGGAGGCAGAGACCCGTGCTGAGTTTGCTGAGAGATCGGTAGC
CAAGCTGGAAAAGACAATTGATGACCTGGAAGATGAGCTCTATGCCCAGAACTGAAGTACAAGGCCATTAGCGA
GGAGCTGGACCACGCCCTCAATGACATGACCTCTATATTAATTATCACCGTTTCIGCTCTGTTCTGGATCTGCCCC
CTTTACTCCTCGGGGAACCCAAGGCCCACTCTCGCTCTGGATTCCATTTGGGTCAGCCTGGCTGGTCCCCAAGG
CATTAGGATGGGGGAGCAAAAAGCAACTTATGTATTTTCTTCCACCCCAACCCCAAATTAATATGTTAAGCTGCT
GGA

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FIGURE 443

MMEAIIKKKMQLKLDKENALDRAEQAEAEQKQAEERSKQLEDELAAMQKKLKGTEDELDKYSEALKDAQEKLELA
EKKAADAEAEVASLNRRIQLVEEELDRAQERLATALQKLEEAEKAADESERGMKVIENTRALKDEEKMELQEIQLK
EAKHIAEEADRKYEEVARKLVIIEGDLERTEERAELAESKCSELEEELKNVTNNLKSLEAQAEKYSQKEDKYEEE
IKILTDKLKEAETRAEFAERSVAKLEKTIDDELYAQKLKYKAISEELDHALNDMTSI

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FIGURE 444

GTCAGCGGGGAAGCTGGAAGGCGTCGTTCTCCTTTCCAGCTCTCCTGCCTGTCCGCCATGTTTTCAGGCCGGGT
CTGGCTTGGTCTTCCCCCGTAAGGAAATGGCCGGGGAGCTCCAGGGGACCCAGGCGCCGTCGCTTCGGCGGAGCT
GGGCTGACCAGCCAGGACAGCGGGGTAAACCCGAACAATTCTGCGCGAGGTAGGGAGGCCATGGCGTCCGGCAGT
AACTGGCTCTCCGGGGTGAATGTCGTGCTGGTGATGGCCTACGGGAGCCTGGACTTGAAAGAGGAGATTGATATT
CGACTCTCCAGGGTTCCAGGATATCAAGTATGAGCCCCAGCTCCTTGCAGATGATGATGCTAGACTACTACAAGT
GAAACCCAGGGAATCAAAGTTGCTACAAGTATCTGTATAGGATGAAAGCTCTGGATGCCATTCTGACCTCTGAG
ATCCCATTTTATTCTGAAGGCCGGCATCCCCGTTCTTAATGGGCAAGAATTTCCGCTCCTACCTGCTGGATCTG
CGAAACACTAGTACGCCCTTTCAAGGGTGTACGCAAGCACTCATTGATACCCTTTTGGATGGCTATGAAACAGCC
CGCTATGGGACAGGGGTCTTTGGCCAGAATGAGTACCTACGCTATCAGGAGGCCCTGAGTGAGCTGGCCACTGCG
GTTAAAGCACGAATTGGGAGCTCTCAGCGACATCACCAGTCAGCAGCCAAAGACCTAACTCAGTCCCCTGAGGTC
TCCCCAACACCATCCAGGTGACATACCTCCCCCTCCAGTCAGAAGAGTAAACGTGCCAAGCACTTCCTTGAATTG
AAGAGCTTTAAGGATAACTATAACACATTGGAGAGTACTCTGTGACGGAGCTGAAGGACTCTTGCCGTAGATTAA
GCCAGTCAGTTGCAATGTGCAAGACAGGCTGCTTGCCGGGCCGCCCTCGGAACATCTGGCCAGCAGGCCAGAC
TGTATCCATCCAAGTTCCCGTTGTATCCAGAGTTCCTTAGAGCTTGTGTCTAAAGGGTAATCCCCAACCTTCCT
TATGAGCATTTTTAGAACATTGGCTAAGACTATTTTCCCCCAGTAGCGCTTTTTTCTGGATTTCATTCCGGGTG
TATTCTTAATGTTTCTGTCAAAGCTTCTTAAAAATCTTCACTTGGTTTCAGCCATAGTTCACCTTCCCTGTTCCA
GGTTTATTTAATTCCAAAGGTGAGAGTTGGAGTGAGATGTCTTCCATATCTATACCTTTGTGCACAGTTGAATGG
GAACTGTTTGGGTTTAGGGCATCTTAGAGTTGATTGATGGAAAAAGCAGACAGGAACGGTGGGAGGTCAAGTGG
GGAAGTTGGTGAATGTGGAATAACTTACCTTTGTGCTCCACTTAAACCAGATGTGTTGCAGCTTTCCTGACATGC
AAGGATCTACTTTAATTCCACACTCTCATTATAAATTGAATAAAAGGGAATGTTTGGCACCTGATATAATCTG
CCAGGCTATGTGACAGTAGGAAGGAATGGTTTCCCCTAACAAGCCCAATGCACTGGTCTGACTTTATAAATTATT
TAATAAAATGAACATTATCAAATAAAACGTATGAATCAGTAAAAAAAAAAAAAAAAAAAAA

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FIGURE 445

MASGSNWLSGVNVVLVMAYGSLDLKEEIDIRLSRVQDIKYEPQLLADDDARLLQLETQGNQSCYNYLYRMKALDA
IRTSEIPFHSEGRHPRSLMGKNFRSYLLDLRNTSTPFKGVRKALIDTLLDGYETARYGTGVFGQNEYLYRYQEALS
ELATAVKARIGSSQRHHQSAAKDLTQSPEVSPTTIQVTYLPSSQKSKRAKHFLELKSFKDNYNTLESTL

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FIGURE 446

CCCGACTAAGTGACTTAACTCCCACCTACTCCTGGAATAAGGAGTCAAAGCCCGGATAGGCGCAGTATTCTACC
TTGTAAATACTGTTATTTGTATATACTGTAAATGATGACATCGGTGGGCACTAACCGAGCCCGGGGAACTGGGA
ACAACCTCAAAACCAAAACCAGACACAGCACAGCAGCGGCCACAGGCCACTGCAGAACAAATTAGACTTGCACA
GATGATTTTCGGACCATAATGATGCTGACTTTGAGGAGAAGGTGAAACAATTGATTGATATTACAGGCAAGAACCA
GGATGAATGTGTGATTGCTTTGCATGACTGCAATGGAGATGTCAACAGAGCTATCAATGTTCTTCTGGAAGGAAA
CCCAGACACGCATTTCCTGGGAGATGGTCGGGAAGAAGAAGGGAGTCTCAGGCCAGAAGGATGGTGGCCAGACGGA
ATCCAATGAGGAAGGCAAAGAAAATCGAGACCGGGACAGAGACTATAGTCGGCGACGTGGTGGGCCACCAAGACG
GGGGAGAGGTGCCAGCCGTGGACGAGAGTTTCGAGGTGAGGAAAATGGATTGGATGGCACCAAGAGTGGAGGGCC
TTCTGGAAGAGGAACAGAAAGAGGCAGAAGGGGCCGTGGCCGAGGCAGAGGTGGCTCTGGTAGGCGAGGAGGAAG
GTTTTCTGCTCAAGGAATGGGAACCTTTAACCCAGCTGATTATGCAGAGCCAGCCAACTACTGATGATAACTATGG
CAATAGCAGCGGCAATACGTGGAACAACACTGGCCACTTTGAACCAGATGATGGGACGAGTGCATGGAGGACTGC
AACAGAGGAGTGGGGGACTGAAGATTGGAATGAAGATCTTTCTGAGACCAAGATCTTCACTGCCTCTAATGTGTC
TTCAGTGCCCTGCTGCGGAGAAATGTGACAATCACTGCTGGTCAGAGAATTGACCTTGCTGTTCTGCTGGGGAA
GACACCATCTACAATGGAGAATGATTCACTAATCTGGATCCGTCTCAGGCTCCTTCTCTGGCCCAGCCTCTGGT
GTTCAAGTAATTCGAAGCAGACTGCCATATCACAGCCTGCTTCAGGGAACACATTTTCTCATCACAGTATGGTGAG
CATGTTAGGGAAAGGATTTGGTGATGTCGGTGAAGCTAAAGCGGCAGTACTACAGGCTCCAGTTCTTGGAGCA
ATTCAAGACTGCCAAGCCCTGGCTCAGTTGGCAGCTCAGCATTCTCAGTCTGGAAGCACCACCACCTCCTCTTG
GGACATGGGCTCGACGACACAATCCCCATCACTGGTGCAATGATTGAAGAACCAGTGATTTCAGCAGTGCA
CAGCCCCCTTTACAAAGCGCCAGGCTTTTACCCCATCTTCAACCATGATGGAGGTGTTCTTTCAGGAGAAGTCACC
TGCAGTGGCTACCTCCACAGCTGCACCTCCACCTCCGCTCTTCTCTCTGCCAAGCAAATCCACATCGGCTCCACA
GATGTCGCCTGGATCTTCAGACAACCAAGTCCCTCTAGCCCTCAGCCGGCTCAGCAGAACTGAAACAGCAGAAGAA
AAAAGCCTCCTTGACTTCTAAGATTCTGCTCTGGCTGTGGAGATGCCTGGCTCAGCAGATACTCAGGGCTAAA
CCTGCAGTTTGGGGCATTGCAGTTTGGGTGAGAGCCTGTCTTTCTGATTATGAGTCCACCCCCACCAGAGCGC
CTCTTCAAGCCAGGCTCCAAGTAGCCTGTATACCAGCAGCGCCAGTGAATCATCCTCTACAATTTTCATCTAACCA
GAGTCAGGAGTCTGGTTATCAGAGCGGCCCAATTCAGTCGACAACCTATACCTCCCAAATAATGCTCAGGGCCC
TCTTTATGAACAGAGATCCACACAGACTCGGCGGTACCCAGCTCCATCTCTTCATCACCCCAAAGGACCTGAC
TCAGGCAAAGAATGGCTTCAGTTCTGTGCAAGGCCACGAGTTACAGACCACACAATCTGTTGAAGGTGCTACAGG
CTCTGCAGTGAATCTGATTACCTTCCACTTCTAGCATCCCCCTCTCAATGAAACGGTATCTGCAGCTTCCTT
ACTGACGACAACCAATCAGCATTCTCCTTGGGTGGCTTGAGCCACAGTGAGGAGATTCCAAATACTACCAC
CACACAACACAGCAGCAGCTTATCTACGCAGCAGAATACCTTTTCATCATCAACATCTTCTGGGCGCACTTCGAC
ATCCACTCTTTTGCACACAAGTGTGGAGAGTGAGGCGAATCTCCATTCTTCTCCAGCACTTTTCCACCACATC
CAGCACAGTCTCTGCACCTCCCCAGTGGTCAGTGCTCCTCCAGTCTCAATAGTGGCAGTAGCCTGGGCCTCAG
CCTAGGCAGCAACTCCACTGTACAGCCTCGACTCGAAGCTCAGTTGCTACGACTTCAGGAAAAGCTCCTCCCAA
CCTCCCTCCTGGGGTCCCGCGGTTGTTGCCTAATCCGTATATTATGGCTCCAGGGCTGTTACATGCCATCCCGCC
ACAAGTATATGGTTATGATGACTTGCAGATGCTTCAGACAAGATTTCCATTGGATTACTACAGCATCCCATTTC
CACACCCACTACTCCGCTGACTGGGAGGGATGGTAGCCTGGCCAGCAACCTTATTCTGGTGACCTCACAAAGTT
CGGCCGTGGGGATGCCTCCTCCCCAGCCCCGGCCACAACCTTGGCCCAACCCCAACAGAACAGACGCAGACTCA
CCATACCACGCAGCAGACATTCTGAACCCGGCGCTGCCTCCTGGCTACAGTTACACCAGCCTGCCATACTATAC
AGGGGTCCCGGGCCTCCCCAGCACCTTCCAGTATGGGCCTGCTGTTCCCTGTGGCTCCTACCTCTTCCAAGCA
GCATGGTGTGAATGTAGTGTGAATGCATCGGCCACCCCTTTCCAACAGCCGAGTGGATATGGGTCTCATGGATA
CAACACTGGAAGAAAATATCCACCCCTTACAAGCATTTCTGACGGCTGAGAGCTAATTTGGCCCAAGGCTGGG
GGCTGTGTTTTGTGTGTGTATAAATTTGCACTGAAGTCTTGTTCAGAAACCAGACCACTGAGGAGAGCCTGC
TGAGCTGAGGCCATGGCCTGCGTGGCTTGGGGAATGAGTTGGTGATACCTTCTGGGCTTTTGAACCTTGCCCT
CCCCATTTCCCTCTCCCCATGTGTCTGACCTGTCTTACCAATTTCAAGTTCAAGCGGTGCAGCACCTTCGAA
GCATCAATGCACACACCTGCTGTGCTTTTGATTCTGGAAGGCATGTAGTTTCAACTGTAAACAAAAATATTG
TAGTCTTCAATAAACTGTGGTATTTCTTTAGCTAAC

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FIGURE 447

MMTSVGTNRARGNWEQPQNQNTQHKQRPQATAEQIRLAQMISDHNDADFEKVKQLIDITGKNQDECVIALHDC
NGDVNRRAINVLLEGNPDTHSWEMVGKKKGVSQKDGQTESNEEGKENRDRDRDYSRRRGGPPRRGRGASRGREF
RGQENGLDGTKSGGPPSGRGTERRRGRGRGGSGRRGGRFSAQGMGTFFNPADYAEFANTDDNYGNSSGNTWNNT
GHFEPDDGTSAWRTATEEWGTEDWNEDLSETKIFTASNVSSVPLPAENVITITAGQRIDLAVLLGKTPSTMENDSS
NLDPSQAPSLAQPLVFSNSKQTAISQPASGNTFSHSMVSMGLGKGFQDVGEAKGGSTTGSQFLEQFKTAQALQAL
AAQHSQSGSTTTSSWDMGSTTQSPSLVQYDLKNPDSAVHSPFTKRQAFTPSSTMMEVFLQEKSPAATSTAAPP
PPSSPLPSKSTSAPOMSPGSSDNQSSSPQPAQQKLKQKKKASLTSKIPALAVEMPGSADISGLNLQFQALQFGS
EPVLSDYESTPTTSASSSQAPSSLYTSTASESSSTISSNQSQESGYQSGPIQSTTYTSQNNAAQGPLYEQRSTQTR
RYPSSISSSPQKDLTQAKNGFSSVQATQLQTTQSVGATGSAVKSDSPSTSSIPPLNETVSAASLLTTNQHSSS
LGGLSHSEEIPNTTTTQHSSTLSTQNTLSSSTSSGRTSTSTLLHTSVESEANLHSSSTFSTTSSTVSAPPPVV
SVSSSLNSGSSLGLSLGSNSTVTASTRSSVATTSGKAPPNLPPGVPPLLPNPYIMAPGLLHAYPPQVGYDDLQOM
LQTRFPLDYYSIPFPTPTTPTLTGRDGLASNPYSGDLTKFGRGDASSPAPATTLAQPQONQNTQTHHTTQQTFLNP
ALPPGYSYTSLPYYTGVPGLPSTFYGPVAVFPVAPTSSKHGQVNVSVNASATPFQQPSGYGSHGYNTGRKYPPPY
KHFWTAES

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FIGURE 448

CCTACAGAGGGGTCCATACCGTGTGTCTGGAATCCCGTTGTAACCTAAAGGGAAATTTTCACAATGTCCAGAG
CCCTTGATGTCCTGCAAATGAAGGAGGAGGATGTCCTTAAGTTCCTTGCCAGCAGGAACCCACTTAGGTGGCACTA
ATCTTGACTTCCAGATGGAACAGTACATCTATAAAAGGAAAAGTGATGGCATCTACATCATAAATCTGAAGAGGA
CCTGGGAGAAGCTTCTGCTGGCAGCTCGTGCCATTGTTGCCATTGAAAACCCCTGCTGATGTCAGTGTTATATCCT
CCAGGAATACTGGCCAGAGGGCCATGCTGAAGTTTGCTGCTGCCACTGGAGCCACTCCAATTGCTGGCCACTTCA
CTCCTGGAACCTTCACTAACCGGATCCAGGCAGCCTTCCGGGAGCCACAGCTTCCTGTGGTTACTGACCCAGGG
CTGACCACCAGCCTCTCACGGAGGTATCTTATGTTAACTTACCTACCATTGCGCTGTGTAACACAGATTCTCCTC
TGCGCTATGTGGACATTGCCATCCCATGCAACAATAAGGGAGCTCACTCAGTGGGTGGATGTGGTGGATGCTGG
CTCAGGAAGTTCTGCGCATGCGTGGCACCATTTCCTGTAACACCCATGGGAGGTCATGCCTGATCTCTGCTTCT
ACAGAGATCCTGAAGAGATTGAAAAAGAAGAGCAGGCTGCTGCTGAAGAGGCAGTGACCAAGGAGGAATTCAGG
GTGAATGGACTGCTCCAGCTCCTGAGTTCAGTCTACTCAGCCTGAGGTTCAGACTGGTCTGAAGGTCTGCAGG
TGCCCTCTGTGTCTATTAGTAGTTCCCTACTGAAGACTGGAGCGCTCAGCCTGCCACGGAAGACTGGTCTGCAG
CTCCCACTGCTCAGGCCACTGAATGGGTAGGAGCAACCACTGAATGGTCTTAAGCTGTTCTTGCAATGGGCTCTTA
AGCAACATGGAAAAATGGTTGATGGAAAATAAATAAACATCAGTTTCT

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FIGURE 449

MSRALDVLQMKEEDVLKFLAAGTHLGGTNLDFQMEQYIYKRKSDGIYIINLKRTWEKLLLAARAIVAIENPADVS
VISSRNTGQRAMLKFAAATGATPIAGHFTPGTFTNRIQAAFREPOLPVVTDPRADHQPLETEVSYVNLPTIALCNT
DSPLRYVDIAIPCNNKGAHSVGMWWMLAQEVLRMRTISRHPWEVMPDLCFYRDPEEIEKEEQAAAEAVTKE
EFQGEWTAPAPEFTATQPEVADWSEGLQVPSVSIQSSLLKTGALS LPRKTGLQLPLLRPLNGVGATTEWS

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FIGURE 450A

CGAAATTGAACCGGAGCCATCTTGGGCCCGGCGCGCAGACCCGCGGAGTTTCCCGTGCCGACGCCCCGGGGCCAC
TTCCAGTGCGGAGTAGCGGAGGCGTGGGGGCTCGAGGGGCTGGCGCGGCCAGCGGTGCGGCCAGGGTCTGTGCC
GCCGGCGGGTTCGGGCCGGGCAATGCCTCGCGGGCGCAATGAATCCGCGGCAGGGGTATTCCCTCAGCGGATACTA
CACCCATCCATTTCAAGGCTATGAGCACAGACAGCTCAGGTACCAGCAGCCTGGGCCAGGATCTTCCCCAGTAG
TTTCTGCTTAAGCAAATAGAATTTCTCAAGGGGCGAGCTCCAGAAAGCACCAGGTGATTGGAAAGCAGACACCGTC
ACTGCCACCTTCCCTCCAGGACTCCGGCCAGGTTTCCAGTACTACTTGCTCCAGTACCAGAGGCAGGCAAGT
GGACATCAGGGGTGTCCCAGGGGCGTGATCTCAGAAGTCAGGGGCTCCAGAGAGGGTTCCAGCATCCTTCACC
ACGTGGCAGGAGTCTGCCACAGAGAGGTGTTGATTGCCTTTCTCAGATTTCCAGGAACTGAGTATCTACCAAGA
TCAGGAACAAAGGATCTTAAAGTTCTGGAAGAGCTTGGGGAAGGGAAGGCCACCACAGCACATGATCTGTCTGG
GAACTTGGGACTCCGAAGAAAGAAATCAATCGAGTTTTATACTCCCTGGCAAAGAGGGCAAGCTACAGAAAGA
GGCAGGAACACCCCTTTGTGAAAATCGCGGTCTCCACTCAGGCTTGAACACAGCACAGCGGAGTGGTAAGACC
AGACGGTCATAGCCAAGGAGCCCCAACTCAGACCCGAGTTTGAACCGGAAGACAGAACTCCACATCTGTCTC
AGAAGATCTTCTTGAGCCTTTTATTGCAGTCTCAGCTCAGGCTTGAACACAGCACAGCGGAGTGGTAAGACCAGA
CAGTCATAGCCAAGGATCCCCAACTCAGACCCAGGTTTGAACCTGAAGACAGCAACTCCACATCTGCCTTGGGA
AGATCCTCTGAGTTTTTAGACATGGCCGAGATCAAGGAGAAAATCTGCGACTATCTTCAATGTGTCTGACTC
CTCTGCCCTGAATTTGGCTAAAAATATTGGCCTTACCAAGGCCCGAGATATAAATGCTGTGCTAATTGACATGGA
AAGGCAGGGGGATGTCTATAGACAAGGGACAACCCCTCCCATATGGCATTGACAGACAAGAAGCGAGAGAGGAT
GCAAATCAAGAGAAATACGAACAGTGTTCCTGAAACCGCTCCAGCTGCAATCCCTGAGACCAAAAGAAACGCAGA
GTTCTCACCCTGTAATATACCCACATCAAATGCCTCAAATAACATGGTAACCACAGAAAAAGTGGAGAATGGGCA
GGAACCTGTCATAAAGTTAGAAAAACAGGCAAGAGGCCAGACCAGAACAGCAAGACTGAAACACCTGTTTCAATTA
CAATGGCCCTCAAAGCAGGGTATGTTGACTTTGAAAATGGCCAGTGGGCCACAGATGACATCCAGATGACTT
GAATAGTATCCGCGCAGCACCAGGTGAGTTTCGAGCCATCATGGAGATGCCCTCCTTCTACAGTCATGGCTTGCC
ACGGTGTTCACCTACAAGAACTGACAGAGTGCCAGCTGAAGAACCCCATCAGCGGGCTGTTAGAATATGCCCA
GTTGCTAGTCAAACCTGTGAGTTCAACATGATAGAGCAGAGTGGACCAACCCCATGAACCTCGATTTAAATTCGA
GGTTGTCTCAATGGCCGAGAGTTTCCCCAGCTGAAGCTGGAAGCAAGAAAGTGGCCAAGCAGGATGCAGCTAT
GAAAGCCATGACAATTCTGCTAGAGGAAGCCAAAGCCAAGGACAGTGGAAAATCAGAAGAATCATCCACTATTC
CACAGAGAAAGAAATCAGAGAAGACTGCAGAGTCCAGACCCCAACCCCTCAGCCACATCCTTCTTTCTGGGAA
GAGCCCCGTACCCACACTGCTTGAGTGTATGCACAAATTTGGGGAATCCTGCGAATTCCTGCTCCTGTCCAAAGA
AGGCCCTGCCCATGAACCAAGTTCCAATACTGTGTTGCAGTGGGAGCCCAACTTTCCCAAGTGTGAGTGTCTCC
CAGCAAGAAAGTGGCAAAGCAGATGGCCGAGAGGAAGCCATGAAGGCCCTGCATGGGGAGGCGACCAACTCCAT
GGCTTCTGATAACCCAGCCTGAAGGTATGATCTCAGAGTCACTTGATAACTTGAATCCATGATGCCCAACAGGT
CAGGAAGATTGGCGAGCTCGTGAGATACCTGAACCAACCCCTGTGGGTGGCCTTTTGGAGTACGCCCCGTCCCA
TGGCTTTGCTGCTGAATTCAAGTTGGTGCAGCAGTCCGACCTCCTCAGAGCCCAAGTTTCGTTTACCAAGCAAA
AGTTGGGGGTGCTGCTGCTTCCAGCCGTCTGCGCACACAGCAAGAAGCAAGGCAAGCAGGAAGCAGCAGATGCGGC
TCTCCGTGTCTTGATTGGGGAGAACGAGAAGGCAGAACGCATGGGTTTACAGAGGTAACCCAGTGCAGGGGC
CAGTCTCAGAAGAACTATGCTCCTCCTCTCAAGGTCCCAGAACACAGCCAAAGACACTCCCTCTCACTGGCAG
CACCTTCCATGACCAGATAGCCATGCTGAGCCACCGGTGCTTCAACACTCTGACTAACAGCTTCCAGCCCTCCTT
GCTCGGCCGCAAGATTCTGGCCGCCATCATTATGAAAAAGACTCTGAGGACATGGGTGTCGTCTGCTCAGCTTGGG
AACAGGGAATCGCTGTGTGAAAGGAGATTCTCTCAGCCTAAAAGGAGAACTGTCAATGACTGCCATGCAGAAAT
AATCTCCCGGAGAGGCTTCATCAGGTTTCTCTACAGTGAAGTAAATGAAATACAACTCCAGACTCCGAAGGATAG
TATATTTGAACCTGCTAAGGGAGGAGAAAAGCTCCAAATAAAAAAGACTGTGTCAATCCATCTGTATATCAGCAC
TGCTCCGTGTGGAGATGGCGCCCTCTTGACAAGTCTGACGCGACCGTGCTATGGAAGCACAGAATCCCGCCA
CTACCCTGTCTTCGAGAATCCCAACAAGGAAAGCTCCGACCAAGGTGGAGAACGGAAGGCACAATCCCTGT
GGAATCCAGTGACATTGTGCCTACGTGGGATGGCATTGCGCTCGGGGAGAGACTCCGTACCATGTCCTGTAGTGA
CAAAATCCTACGTGGAACGTGCTGGGCTGCAAGGGGCACTGTTGACCCACTTCTGCTGTCTGTGACAAGAGATGG
GAGTGCATTTGAGGATGGACTACGACATCCCTTTATTGTCAACACCCCAAGGTTGGCAGAGTCAGCATATATGA
TTCCAAAAGGCAATCCGGGAAGACTAAGGAGACAAGCGTCAACTGGTGTCTGGCTGATGGCTATGACCTGGAGAT

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FIGURE 450B

CCTGGACGGTACCAGAGGCACTGTGGATGGGCCACGGAATGAATTGTCCCGGGTCTCCAAAAAGAACATTTTTCT
TCTATTTAAGAAGCTCTGCTCCTTCCGTTACCGCAGGGATCTACTGAGACTCTCCTATGGTGAGGCCAAGAAAGC
TGCCCGTGACTACGAGACGGCCAAGAACTACTTCAAAAAAGGCCTGAAGGATATGGGCTATGGGAAGTGGATTAG
CAAAACCCAGGAGGAAAAAGAACTTTTATCTCTGCCAGTATAGTATGCTCCAGTGACAGATGGATTAGGGTGTGT
CATACTAGGGTGTGAGAGAGGTAGGTCGTAGCATTCCCTCATCATGCTCAGGGGATTTTTTTTTTCTCCTTTTTT
TTTCTTTTTAAGCCATAATTGGTGATACTGAAAACCTTTGGGTTCCCATTTATCCTGCTTTCTTTGGGATTGCTAG
GCAAGGTCTGGCCAGGCCCCCTTTTTTCCCCCAAGTGAAGAGGCAGAAACCTAAGAAGTTATCTTTTTCTTTCTA
CCCAAGCATACATAGTCACTGAGCACCTGCGGTCCATTTCCTCTTAAAGTTTTGTTTTGATTTGTTTCCATTT
CCTTTCCCTTTTGTGTTTGCTACACTGACCTCTTGCGGTCTTGATTAGGTTTCAGTCAACTCTGGATCATGTCAGG
GACTGATAATTTCAATTTGTGGATTACGACAGCCCCCTCTACTTCCCCTCTTTCCCTTCTGAGATTCTTTCTTTGTG
ATCTGAATGTCTCCTTTTCCCCCTCAGAGGGCAAAGAGGTGAACATAAAGGATTTGGTGAAACATTTGTAAGGGT
AGGAGTTGAAACTGCAGTTCCCAAGTCCACGGAAGTGTGATTGGAGCCTGCAGATAATGCCAGCCATCCTCCC
ATCTGCACTTTAGCCAGCTGCAGGGCGGGCAAGGCAAGGAAAGCTGCTTCCCTGGAAGTGTATCACTTTCTCCG
GCAGCTGGGAAGTCTAGAACCAGCCAGACTGGGTTAAGGGAGCTGCTCAAGCAATAGCAGAGGTTTACCCGGCA
GGATGACACAGACCACTTCCCAGGGAGCACGGGCATGCCTTGGAATATTGCCAAGCTTCCAGCTGCCTCTTCTCC
TAAAGCATTCTAGGAATATTTTCCCGCCAATGCTGGGCGTACACCCTAGCCAACGGGACAAATCCTAGAGGGT
ATAAAATCATCTCTGCTCAGATAATCATGACTTAGCAAGAATAAGGGCAAAAAATCCTGTTGGCTTAACGTCACT
GTTCACCCGGTGTAAATATCTCTCATGACAGTGACACCAAGGGAAGTTGACTAAGTCACATGTAAATTAGGAGTG
TTTTAAAGAATGCCATAGATGTTGATTCTTAACTGCTACAGATAACCTGTAATTGAGCAGATTTAAAATTCAGGC
ATACTTTTCCATTTATCCAAGTGCTTTCATTTTCCAGATGGCTTCAGAAGTAGGCTCGTGGGCAGGGCGCAGAC
CTGATCTTTATAGGGTTGACATAGAAAGCAGTAGTTGTGGGTGAAAGGGCAGGTTGTCTTCAAACCTCTGTGAGGT
AGAATCCTTTGTCTATACCTCCATGAACATTGACTCGTGTGTTGAGAGCCTTTGGCCTCTCTGTGGAGTCTGGCT
CTCTGGCTCCTGTGCATTCTTTGAATAGTCACTCGTAAAACTGTGAGTGTGAAACTGTTTCTTTACTCATG
TTGAAGGGACTTTGTTGGCTTTTAGAGTGTGGTTCATGACTCCAAGAGCAGAGCAGGGAAGAGCCCAAGCATAGA
CTTGGTGCCGTGGTGATGGCTGCAGTCCAGTTTTGTGATGCTGCTTTTACGTGTCCCTCGATAACAGTCAGCTAG
ACACACTCAGGAGGACTACTGAGGCTCTGCGACCTTCAGGAGCTGAGCCTGCCTCTCTCCTTTAGATGACAGACC
TTCATCTGGGAACGTGCTGAGCCAGCACCCCTCAGATGATTTCCCTCCAACTGCTGACTAGGTCATCCTCTGTCT
GGTAGAGACATTCACATCTTTGCTTTTATTTCTATGCTCTCTGTACTTTTGACCAAAAATTGACCAAGTAAGAAA
ATGCAAGTTCTAAAAATAGACTAAGGATGCCTTTGCAGAACACCAAAGCATCCCAAGGAAGTGGTAGGGAAGTGG
CGCTGTCTCCTGGAGTGGAAGAGGCCTGCTCCCTGGCTCTGGGTCTGCTGGGGGCACAGTAAATCAGTCTTGGC
ACCCACATCCAGGGCAGAGAGGTCTGTGGTTCTCAGCATCAGAAGGCAGCGCAGCCCCCTCTCCTCTTCAGGCTAC
AGGGTGTACCTGCTGAGTCTCAGGTTGTTTGGCCTCTCTGGTCCATCTTGGGCATTAGGTTCTCCAGCAGAG
CTCTGGCCAGCTGCCTCTTCTTTAACTGGGAACACAGGCTCTCACAAGATCAGAACCCCACTCACCCCAAGAT
CTTATCTAGCAAGCCTGTAGTATTAGTTTCTGTTGTAGGAAGAGAGCGAGGCATCCCTGAATTCACGCATCTG
CTGGAACGAGCCGTGTCAGATCGCACATCCCTGCGCCCCATGCCCTCTGAGTCACACAGGACAGAGGAGGCA
GAGCTTCTGCCCAGTGTATCTTCACTTTCTTTGTCCAGTCTTTTGTTTTAAATAAGCAGTGACCCCTCCCTACTC
TTCTTTTTAATGATTTTGTAGTTGATTGTCTGAACTGTGGCTACTGTGCATTCTTGAATAATCACTTGTAAA
AATTGTGAGTGTGAAGCTGTTTCTTTACTCACATTGAAGGGACTTCGTTGGTTTTTGGAGTCTTGGTTGTG
ACTCCAAGAGCAGAGTGAGGAAGACCCCAAGCATAGACTCGGGTACTGTGATGATGGCTGCAGTCCAGTTTAT
GATTCTGCTTTTATGTGTCCCTTGATAACAGTGACTTAACAATATACATTCTCATAAATAAAAAAAAACAAGA
ATCTGAATTCTT

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FIGURE 451

GAGCCAGCGAGGAGTGAAGCTGAGCCTGGCCTCACACGCTCCTAGAGGACCACCTCCTGAGAGAGTTCTTTACAC
CCCTCTTCTTTCTCCAAGCTCCCTCCTGCTCTCCCTCCCTGCCAATACAATGCATTCTTGAGTGGCAGCGTCT
GGACTCCAGGCAGCCCCAGAGAACCGAAGCAAGCCAAAGAGAGGACTGGAGCCAAGATACTGGTGGGGGAGATTG
GATGCCTGGCTTTCTTTGAGGACATCTTTGGAGCGAGGGTGGCTTTGGGGTGGGGGCTTGTGCTGCAGGGAATAC
AGCCAGGCCCAAGATGGACACTTCTGGGCACTTCCATGACTCGGGGTGGGGGACTTGGATGAAGACCCCAAGT
GCCCCGTGTCCATCCTCTGGGGATGAGCAGCAGCAGCAGCAGCAGCAACAGCAGCAGCAGCCACCACCGCCAG
CGCCACCAGCAGCCCCCAGCAGCCCCCTGGGACCTCGCTGCAGCCTCAGCCTCCGCAGCTTCAGCAGCAGCAGC
AGCAGCAGCAGCAGCAGCAGCAGCAGCAGCCACCGCATCCCCGTGTCTCAGCTCGCCCAACTCCAGAGCCAGCCCCG
TCCACCCTGGCCTGCTGCACTCCTCTCCACCGCTTTAGGGCCCCCCTTCGTCCAATCCACCGCCATCCTCC
ACCCTTCTCCAGGCAAGGCAGCCAGCTCAATCTCAATGACCACTTGCTTGGCCACTCTCCAAGTTCCACAGCTA
CAAGTGGGCCTGGCGGAGGCAGCCGGCACCGACAGGCCAGCCCCCTGGTGCACCGGGCGGACAGCAACCCCTTCA
CGGAGATCGCCATGAGCTCCTGCAAGTATAGCGGTGGGGTCAAGAAGCCCTCAGCCGCTCAGCGCTCCCGGA
GGAACCTCATCGAGGCCGAGACTGAGGGCCAACCCCTCCAGCTTTTCAGCCCTAGCAACCCCGGAGATCGTCA
TCTCCTCCCGGGAGGACAACCATGCCCACCAGACCCTGCTCCATCACCTAATGCCACCCACAACCACCAGCATG
CCGGCACCACCGCCAGCAGCACCACCTTCCCCAAGCCAACAAGCGGAAAAACAAAACATTGGCTATAAGCTGG
GACACAGGAGGGCCCTGTTTGAAGAGAAAGCGACTGAGTGACTATGCTCTGATTTTGGGATGTTTGAATTG
TTGTTATGGTGATAGAGACCGAGCTCTCTTGGGGTTTGTACTCAAAGGACTCCATGTTTTCGTTGGCCCTGAAAT
GCCTTATCAGTCTGTCCACCATCATCCTTTTGGGCTTGATCATCGCCTACCACACACGTGAAGTCCAGCTCTTCG
TGATCGACAATGGCGCGGATGACTGGCGGATAGCCATGACCTACGAGCGCATCCTGTACATCAGCCTGGAGATGC
TGGTGTGCGCCATCCACCCATTCCTGGCGAGTACAAGTTCTTCTGGACGGCAGCCTGGCCTTCTCTACACAC
CCTCCCGGGCGGAGGCCGATGTGGACATCATCCTGTCTATCCCCATGTTCTGCGCCTGTACCTGATCGCCCGAG
TCATGCTGCTGCACAGCAAGCTCTTACCGATGCCTCGTCCCGCAGCATCGGGGCCCTCAACAAGATCAACTTCA
ACACCCGCTTTGTCATGAAGACGCTCATGACCATCTGCCCTGGCACTGTGCTGCTGCTGTTTTCAGCATCTCTGT
GGATCATTGCTGCCTGGACCGTCCGTGTCTGTGAAAGGTACCATGACCAGCAGGACGTAAGTAACTTTCTGG
GTGCCATGTGGCTCATCTCCATCACATTCTTTCCATTGGTTATGGGGACATGGTGGCCACACATACTGTGGGA
AAGGTGTCTGTCTCTCACTGGCATCATGGGTGCAGGCTGCACTGCCCTTGTGGTGGCCGTGGTGGCCCGAAAGC
TGGAATCACCAAAGCGGAGAAGCACGTTTCACTAATTCATGATGGACACTCAGCTCACCAGCGGATCAAGAATG
CTGCAGCCAATGTCTTCGGGAAACATGGTTAATCTATAAACACACAAAGCTGCTAAAGAAGATTGACCATGCCA
AAGTGAGGAAACACCAGAGGAAGTTCTTCCAAGCTATCCACAGTTGAGGAGCGTCAAGATGGAACAGAGGAAGC
TGAGTGACCAAGCCAACACTCTGGTGGACCTTTCCAAGATGCAGAATGTATGTATGACTTAATCACAGAACTCA
ATGACCGGAGCGAAGACCTGGAGAAGCAGATTGGCAGCCTGGAGTCGAAGCTGGAGCATCTCACCGCCAGCTTCA
ACTCCCTGCCGCTGCTCATCGCCGACACCCCTGCGCCAGCAGCAGCAGCTCCTGTCTGCCATCATCGAGGCC
GGGGTGTGAGCGTGGCAGTGGGCACCACCCACACCCCAATCTCCGATAGCCCCATTGGGGTCACTCCACCTCCT
TCCCGACCCCGTACACAAGTTCAAGCAGTTGCTAAATAAATCTCCCACTCCAGAAGCATTACCCATAGGTCTTA
AGATGCAAATCAACTCTCTCTGGTCGCTTTGCCATCAAGAAACATTGAGACCAGGGAACGGAAAGAAGAGAGAC
CGAGCTAATTAATAACTCATGTTTCAATTCAGCGTGCTTGGTCCGACATGCCTTGAAACCAGAAATCTAATCTCTG
TTAGGTGCCTCTACTTGGGAGCGGGAAGAGGAGATGACAGGAAGCGACGCTTGGCAGGGCCCTTGTGTCAGA
GTTGGTGGAGAACAGAAATCCACGCTCAATCTCAGGTTCTCACGCGGGGGTGGGGGTGAGATGCACTGAAGTAG
CCAACAGCGAAGCCAGTCCAGAAGAGGGGTCCGCTGGGAGGGAGGGTTGTGTGAGGCTTGGGGGATGGGCTCTTC
GCCATGGGGGTCTTTGAACACACCTCTCTCCTTTCTTTGTCTACGGAAGCCTCTGGGTGACAAAAGTAAAGA
GAGCTGCCCACAACCTTGCCAAAACAGATATACTCGAATCAGACTGAAAAAAA

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FIGURE 452

GAAGGTTCTGGGCGGGGCTGGACTGTTCTAAGTGAGTTCGGGTGGGGGAGCTTCACGAGGGGAGGCTGCTCTGTG
AAGGAACCGCCTTTCTCTCCGCGTGTCTCACCCCTTTTCTCCCCATATCTGTTTGGACATGAGCTGAGGGCACGGT
CGCGGGCGGTTCAGCCCTGTTTCGCAGCTACGGCGAGGAGGGGCGCGATTGTTCCCTTGTTGCCGCTCCGCTTAGTGG
CCGCGTCCATTCCGCGCGGTGTCCCGATTTTAGGGGTAGGGAGAAAGTGTCTCAGCTTCAGGCATCGCGAGGCGTGGC
GGCCCCATGGCCCCGCTGGGAGGCGCCCCGCGGCTGGTACTGCTGTTCAGCGGCAAGAGGAAATCCGGGAAGGAC
TTCGTGACCGAGGCGCTGCAGAGCAGACTTGGAGCTGATGTCTGTGCTGTCTCCGCGCTCTCTGGTCCACTCAAG
GAACAGTATGCTCAGGAGCATGGCTTGAACCTTCAGAGACTCCTGGACACCAGCACCTACAAGGAGGCGCTTTCCG
AAGGACATGATCCGCTGGGGAGAGGAGAAACGCCAGGCTGACCCAGGCTTCTTTTGCAGGAAGATTGTGGAGGGC
ATCTCCCAGCCCATCTGGCTGGTGAGTGACACACGGAGAGTGTCTGACATCCAGTGGTTTCGGGAGGCGCTATGGG
GCCGTGACGCAGACGGTCCGCGTTGTAGCGTTGGAGCAGAGCCGACAGCAGCGGGGCTGGGTGTTACGCCAGGG
GTGGACGATGCTGAGTCAGAATGTGGCTGGACAACCTTCGGGGACTTTGACTGGGTTCATCGAGAACCATGGAGTT
GAACAGCGCCTGGAGGAGCAGTTGGAGAACCTGATAGAATTTATCCGCTCCAGACTTTTAGTCACTAGGTTCTAGG
AGTGAGCTGGGGCCTGCTGAGGTGGGGGTGGGGCTGACTCTGCAAAATGGGGGTGTCCCCGATCCTGGCCGAGG
TGAGGAACAGACAGGGGGGGTCTAGATTCTGAGGGGGTTGGTGGATATTGGGCAAGGCAGGAAACCTCTGGAGAC
CTCATTTTCTCCATGGGGAAGACAGCCATGCTCTTCAGGAGGAGACTCCAAGGGCAAAGGAGGGTGTCTTGGCTG
TGCTTGAAGGCGAAACCCTGCCATATCCCCAGTGCCAGTCCCCCTCAGCCTGTGGTGGCCTTGCACTCCTGACTGGA
TGTCTCAGCCCCCTGTTCTGGGCAAGAAGCCAGAGCTCCCCAGTGTGGATACTAATAAACCTCTTGGAGCACAC
TCTCAAAACAAACCTCGGG

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FIGURE 453

MAPLGGA^{PR}LVLLFSGKRKSGKDFVTEALQSRLGADVCAVLRLSGPLKEQYAEHGLNFQRL^{LD}STYKEAF^{RK}D
MIRWGEEKRQADPGFFCRKIVEGISQPIWLVS^DTRRVSDIQWFREAYGAVTQTVRVV^{AE}QSRQQRGWVFTPGVD
DAESECGLDNFGDFDWIENHGVEQRLEE^QLENLIEFIR^SRL

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FIGURE 454

ATGGGGCTGAAACTGTCTGGGTCTGAGCTGGGGAGCGGAAGCCACTTGTCCCTCTCCCTCCCCAGGACTTCTGT
GACTCCTGGGCCACAGAGGTCCAACCAGGCTAAGGGCCTGGGGATACCCCTGCCTGGCCCCCTTGCCCAAAGTGA
GCAGGGGGGCCAGGCTGGGCAGCAGCCCCCTTTTACCTCAACTATGGATCTCCTGCCCCCAAGCCCAAGTACA
ATCCACTCCGGAATGAGTCTCTGTCTATCGCTGGAGGAAGGGGCTTCTGGGTCCACCCCCCGGAGGAGCTGCCTT
CCCCATCAGCTTCATCCCTGGGGCCCATCCTGCCTCCTCTGCCTGGGGACGATAGTCCCACTACCCTGTGCTCCT
TCTTCCCCCGGATGAGCAACCTGAGGCTGGCCAACCCGGCTGGGGGGCGCCAGGGTCTAAGGGGGAGCCAGGAA
GGGCAGCTGATGATGGGGAGGGGATCGTAGGGGCAGCCATGCCAGACTCAGGCCCCCTACCCCTCCTCCAGGACA
TGAACAAGCTGAGTGGAGGCGCGGGCGCAGGACTCGGGTGGAGGGGGCCAGCTTGGGGGCGAGGAGTGGACCC
GCCACGGGAGCTTTGTCAATAAGCCCACGCGGGGCTGGCTGCATCCCAACGACAAAGTCATGGGACCCGGGGTTT
CCTACTTGGTTTCGGTACATGGGTTGTGTGGAGGTCTCCAGTCAATGCGTGCCCTGGACTTCAACACCCGGACTC
AGGTCAACAGGGAGGCCATCAGTCTGGTGTGTGAGGCTGTGCCGGGTGCTAAGGGGGCGACAAGGAGGAGAAAGC
CCTGTAGCCGCCCCGCTCAGCTCTATCCTGGGGAGGAGTAACCTGAAATTTGCTGGAATGCCAATCACTCTCACCG
TCTCCACAGCAGCCTCAACCTCATGGCCGAGACTGCAAACAGATCATCGCCAACCAACACATGCAATCTATCT
CATTTCATCCGGCGGGGATCCGGACACAGCCGAGTATGTGCTTATGTTGCCAAAGACCCCTGTGAATCAGAGAG
CCTGCCACATTCTGGAGTGTCCCGAAGGGCTTGCCAGGATGTCTATCAGCACCATTGGCCAGGCCCTCGAGTTGC
GCTTCAAACAATACCTCAGGAACCCACCCAACTGGTCACCCCTCATGACAGGATGGCTGGCTTTGATGGCTCAG
CATGGGATGAGGAGGAGGAAGACCCCTGACCATCAGTACTATAATGACTTCCCGGGGAAGGAACCCCTTG
GGGGGGTGGTAGACATGAGGCTTCGGGAAGGAGCCGCTCCAGGGGTGCTCGACCCACTGCACCCAATGCCCAGA
CCCCAGCCACTTGGGAGCTACATTGCCTGTAGGACAGCCTGTTGGGGGAGATCCAGAAGTCCGCAACAGATGC
CACCTCCACCACCCTGTCCAGGCAGAGAGCTTTTTGATGATCCCTCCTATGTCAACGTCCAGAACCTAGACAAGG
CCCGGAAGCAGTGGGTGGTGTGGGCCCCCAATCCTGCTATCAATGGCAGTGCACCCCGGGACCTGTTTGACA
TGAAGCCCTTCGAAGATGCTCTTCGCGTGCCCTCCACCTCCCAAGTCGGTGTCCATGGCTGAGCAGCTCCGAGGGG
AGCCCTGGTTCATGGGAAGCTGAGCCGGCGGGAGGCTGAGGCACTGCTGCAGCTCAATGGGGACTTCTGGTAC
GGGAGAGCACGACCACACCTGGCCAGTATGTGCTCACTGGCTTGCAGAGTGGGCAGCCTAAGCATTGCTACTGG
TGGACCCTGAGGGTGTGGTTCGGACTAAGGATCACCGCTTTGAAAGTGTGAGTCACTTATCAGCTACCACATGG
ACAATCACTTGCCCATCATCTCTGCGGGCAGCGAACTGTGTCTACAGCAACCTGTGGAGCGGAACTGTGATCTG
CCCTAGCGCTCTCTCCAGAAGATGCCCTCCAATCCTTTCCACCTATTCCTAACTCTCGGGACCTCGTTTGGG
AGTGTCTGTGGGCTTGGCCTTGTGTGAGAGCTGGGAGTAGCATGGACTCTGGGTTTCATATCCAGCTGAGTGAG
AGGGTTTGTGAGTCAAAAGCCTGGGTGAGAACTCTGCCTCTCCCAACATTAATCACCAGTATTAATGTACAGA
GTGGCCCTCACCTGGGCCTTTCTGTGCCAACCTGATGCCCTTCCCAAGAAGGTGAGTGTGTGATGGAAA
ATGTCTGTGGTGACAGGCCAGTGAACAGTCACCTTCTGGGCAAGGGGGAACAAATCACACCTCTGGGCTTC
AGGGTATCCAGACCCCTCTCAACACCCGCCCCCCCCATGTTTAACTTTGTGCTTTGACCATCTCTTAGGTCT
AATGATATTTTATGCAAACAGTTCTTGGACCCCTGAATCAATGACAGGGATGCCAACACCTTCTTGGCTTCTGG
GACCTGTGTTCTTGTGAGCACCTCTCCGGTTTGGGTGGGATAACAGAGGCAGGAGTGGCAGCTGTCCCTCT
CCCTGGGGATATGCAACCCTTAGAGATTGCCCCAGAGCCCCACTCCCGGCCAGGCGGGAGATGGACCCCTCCCTT
GCTCAGTGCTCTGCGCCGGGGCCCCCTCACCCCAAGGGGTCTGTATATACATTTTATAAGGCCTGCCCTCCCATG
TTGCATGCCTATGTACTCTACGCCAAAGTGACGCCCTTCCTCCTGAAGCCTCTGCCCTGCCCTTCTTGGGAG
GGCGGGGTGGGGGTGACTGAATTTGGGCCTCTTGTACAGTTAACTCTCCAGGTGGATTGTGTGGAGGTGAGAAA
AGGGGCATTGAGACTATAAAGCAGTAGACAATCCCCACATACCATCTGTAGAGTTGGAAGTGCATTCTTTTAAAG
TTTTATATGCATATATTTTAGGGCTGTAGACTTACTTTTCTATTTTCTTTTCCATTGCTTATTCTTGAGCAGAAA
ATGATAATCAATTATTACATTTATACATCACCTTTTGTACTTTTCCAAGCCCTTTTACAGCTCTTGGCATTTTCC
TCGCTAGGCCCTGTGAGGTAACGGGATCGCACCTTTTATACCAGAGACCTGAGGCAGATGAAATTTATTTCCAT
CTAGGACTAGAAAACTTGGGTCTCTTACCGCGAGACTGAGAGGCAGAAAGTCAGCCGAATGCCTGTGAGTTTCA
TGGAGGGGAAACGCAAAACCTGCAGTTCCCTGAGTACCTCTACAGGCCCGGCCAGCCTAGCCCCGGGTGGCCA
CACCACAGCAAGCCGGCCCCCTCTTTTGGCCTTGTGATAAGGGAGAGTTGACCGTTTTCATCCTGGCCTCCT
TTTGCTGTTTGGATGTTTCCACGGGTCTCACTTATACCAAGGGGAAACTCTTCATTAAAGTCCGTATTTCTTCT

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FIGURE 455

GAAAGAGCCGGTGAAGGGGCAGAACAGGCAGGTTCCCTCGACCCAGGACCCCTGTTCCCAGGCTATGGCCCCCA
GTGCCCTGTAGACCTGGCAGGCCCCCGTGCTTGCAGCCCTATTTGGGGGTCTGGGTGGCTACTGGAGGGCCTT
GCAGAGGGGCAGAGAAGGCAGGACCATGACATCTAGGGCCTCTGAACTTTCTCCGGGGCGCAGCGTGACGGCTGG
CATCATCATTGTTGGAGATGAGATCCTTAAGTTGGAAACAACAAATGGCTTTTGAGTCCAAGAGTGATGCAATCA
CAGTGACGCATTAAACGGTTACTCCGGAGACATCAGAGCACTGTGGCTGGAGGCTGGGAGCCTGGCCAGGAAGC
TGTCGCCATTGTCCAGGTGAAAGGTGCTAAGGACCTGCTTGGTGGCAGTGGGGACAGAAAGAAGAAAGCAGGCCA
GGCGTGGTGGCTCACACCTATAATTCCAGCACTTTGGGAGGCTGAGGCAGGAGGATCACTTGAGACCAGGAATTC
AACACCAGCCTGGGCAACATGGCAAGACCCCAATTTCTACAAAAAAATTTAAAAATGAGCTGAATGTGGTGGCAGC
CGCCTGTAGTCCCAGCTACTCGGAAGGCTGGGGTGGCCCTTGAAGCCAGGAGGTTGAGGCTGCAGTGAACGTGTGA
CTGAGCCACTATACTCCAGCCTGGGTGACAGAGACCCAGCTTTAAACCACAAACAAATGGATTTTCCCCTCTTGT
GTCCAGTCCAGGCCCCCTCAGCAGCCTGAGGTGGTGTCTTCAAAGAGCAGAGCACTGCATCATCAGGTGGATGCA
GCCATCATCTTCAACCCCTCCCCTTTCATCCCTACAGTACTGATGGCCTCATCTTCCCCTTCAACCCCCAGGGACA
CACTCAGGACACCAACACCTTCTTTCTGTGCCGGACACTGCGCTCCCTAGGGGTCCAGGTTTGCCGAGTCTCAGT
TGTACCTGATGAGGTAGCCACCATTGCAGCTGAGGTCACTTCTTTCTCCAACCGCTTCACCCATGTCTCTACAGC
AGGGGGCATCGGCCCCACTCATGATGATGTGACCTTTGAGGCAGTGGCACAGGCCTTTGGAGATGAGCTGAAGCC
ACACCCCAAGTTGGAAGCAGCCACCAAGCCCTAGGAGGGGAAGGCTGGGAGAAGCTATCATTGGTGCCCTCCTC
TGCCCGCCTGCATTATGGCACAGATCCTTGCACTGGTCAACCTTTAGATTCCCTCTGGTCTCCGTCCGAAACGT
CTACCTCTTCCCAGGCATTCCAGAGCTGCTGCGGCGGGTGTGGAGGGGATGAAGGGACTATTCCAAAACCCAGC
TGTTTCAGTTCCACTCAAAGGAGCTATATGTGGCTGCTGATGAAGCCTCCATCGCCCCCATTCTGGCTGAGGCCCA
GGCCCACTTTGGACGTAGGCTTGGCCTGGGTTCCTACCCCTGACTGGGGCAGCAACTACTATCAGGTGAAGCTGAC
TCTAGACTCAGAGGAAGAAGGACCCCTGGAGGAATGCTTGGCCTACCTGACTGCCCCGTTTGCCCCAGGGATCGCT
GGTCCCCTACATGCCCAACGCTGTGGAGCAGGCCAGTGAGGCTGTATACAACTCGCTGAATCAGGTAGGGACCT
TATGGAGGAGGGGCATTATGCCCAAAGCCATTGGTGGCACCCCAAGATCTCAGTAATGCAGGGGCTGTTGGGTGCT
TCCTGCAAATCCCTGAGAGGGCAGAAGATAGCTTCTGTTAATTCATTATTCTTCCAATAAATGTTGATTGAGTAC
CTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 456

MQPSSSTPPLHPYSTDGLIFPFNPQGHTQDTNTFFLCRTLRLSLGVQVCRVSVVPDEVATIAAEVTSFSNRFTHL
TAGGIGPTHDDVTFEAVAQAFGDELKPHPKLEAATKALGGEGWEKLSLVPSSARLHYGTDPC TGQPPFRFPLVSVR
NVYLFPGIPELLRRVLEGMKGLFQNPVQFHSKELYVADEASIAPILAEQAHFGRRLGLGSYPDWGSNYYQVK
LTLDEEEGPLEECLAYLTARLPQGS LVPYMPNAVEQASEAVYKLAESGRDLMEEGHYAQSHWWHPRSQ

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FIGURE 457

CGCTGCCATGCGGCTGGCGCTGCTCTGGGCCCTGGGGCTCCTGGGCGGGGCAGCCCTCTGCCTTCCTGGCCGCT
CCCAAATATAGGTGGCACTGAGGAGCAGCAGGCAGAGTCAGAGAAGGCCCGAGGGAGCCCTTGAGCCCCAGGT
CCTTCAGGACGATCTCCCAATTAGCCTCAAAAAGGTGCTTCAGACCAGTCTGCCTGAGCCCCCTGAGGATCAAGTT
GGAGCTGGACGGTGACAGTCATATCCTGGAGCTGCTACAGAATAGGGAGTTGGTCCCAGGCCGCCAACCCCTGGT
GTGGTACCAGCCCAGATGGCACTCGGGTGGTCAGTGAGGGACACACTTTGGAGAACTGCTGCTACCAGGGAAGAGT
GCGGGGATATGCAGGCTCCTGGGTGTCCATCTGCACCTGCTCTGGGCTCAGAGGCTTGGTGGTCTGACCCCA
GAGAAGCTATACCCTGGAGCAGGGGCTGGGGACCTTCAGGGTCTCCCATATTTCGCGAATCCAAGATCTCCA
CCTGCCAGGCCACACCTGTGCCCTGAGCTGGCGGGAATCTGTACACACTCAGACGCCACCAGAGCACCCCTGGG
ACAGCGCCACATTCGCCCGAGGCGGGATGTGGTAACAGAGACCAAGACTGTGGAGTTGGTGATTGTGGCTGATCA
CTCGGAGGCCAGAAATACCGGACTTCCAGCACCTGCTAAACCGCACACTGGAAGTGGCCCTCTTGCTGGACAC
ATTCTTCCGGCCCTGAATGTACGAGTGGCACTAGTGGGCTGGAGGCTGGACCCAGCGTGACCTGGTGGAGAT
CAGCCCAAACCCAGCTGTACCCCTCGAAAACCTTCTCCACTGGCGCAGGGCACATTTGCTGCCTCGATTGCCCA
TGACAGTGCCAGCTGGTGACTGGTACTTCTCTGGGCTACGGTGGGCATGGCCATTAGAATCCATCTG
TTCTCCTGACTTCTCAGGAGGTGTGAACATGGACCACTCCACCAGCATCCTGGGAGTCGCTCCTCCATAGCCCA
TGAGTTGGGCCACAGCCTGGGCTGGACCATGATTGCCTGGGAATAGCTGCCCCGTCCAGGTCCAGCCCCAGC
CAAGACCTGCATCATGGAGGCTCCACAGACTTCTACCAGGCTGAACCTCAGCAACTGCAGCCGACGGGCCCT
GGAGAAAGCCCTCCTGGATGGAATGGGCAGCTGCCTCTTCGAACGGCTGCCTAGCCTACCCCTATGGCTGCTTT
CTGCGGAAATATGTTTGTGGAGCCGGGCGAGCAGTGTGACTGTGGCTTCTGGATGACTGCGTCGATCCCTGCTG
TGATTCTTTGACCTGCCAGCTGAGGCCAGGTGCACAGTGTGCATCTGACGGACCTGTTGTCAAATTTGCCAGCT
GCGCCCGTCTGGCTGGCAGTGTCTCTACAGAGGGGATTGTGACTTGCCTGAATCTGCCCAGGAGACAGCTC
CCAGTGTCCCCCTGATGTACAGCTAGGGGATGGCGAGCCCTGCGCTGGCGGGCAAGCTGTGTGCATGCACGGGCG
TTGTGCCTCCTATGCCAGCAGTGCCAGTCACTTTGGGGACCTGGAGCCCAGCCGCTGCGCCACTTTGCCTCCA
GACAGCTAATACTCGGGGAAATGCTTTTGGGAGCTGTGGGCGCAACCCAGTGGCAGTTATGTGTCTGCACCCC
TAGAGATGCCATTTGTGGGCAGCTCCAGTGCCAGACAGGTAGGACCCAGCCTCTGCTGGGCTCCATCCGGGATCT
ACTCTGGGAGACAATAGATGTGAATGGGACTGAGCTGAACCTGCAGCTGGGTGCACCTGGACCTGGGCAGTGATGT
GGCCAGCCCCCTCTGACTCTGCCTGGCACAGCCTGTGGCCCTGGCTGGTGTGTATAGACCATCGATGCCAGCG
TGTGGATCTCCTGGGGGCACAGGAATGTGAAGCAAATGCCATGGACATGGGGTCTGTGACAGCAACAGGCACCTG
CTACTGTGAGGAGGGCTGGGCACCCCTGACTGCACCACTCAGCTCAAAGCAACCAGCTCCCTGACCACAGGGCT
GCTCCTCAGCCTCCTGGTCTTATTGGTCTGGTGATGCTTGGTGCCGGCTACTGGTACCGTGCCCGCCTGCACCA
GCGACTCTGCCAGCTCAAGGGACCCACCTGCCAGTACAGGGCAGCCCAATCTGGTCCCTCTGAACGGCCAGGACC
TCCGAGAGGGCCCTGCTGGCACGAGGCACTAAGTCTCAGGGGCCAGCCAAGCCCCACCCCAAGGAAGCCACT
GCCTGCCGACCCCAAGGGCCGGTGCCCATCGGGTGACCTGCCCCGGCCAGGGGCTGGAATCCCGCCCTAGTGGT
ACCTTCCAGACCAGCGCCACCGCTCCGACAGTGTCTCGCTCTACCTCTGACCTCTCCGGAGGTTCCGCTGCCT
CCAAGCCGGACTTAGGGCTTCAAGAGGCGGGCTGCCCTCTGGAGTCCCCTACCATGACTGAAGGCGCCAGAGAC
TGGCGGTGTCTTAAGACTCCGGGCACCGCCACGCGCTGTCAAGCAACACTCTGCGGACCTGCCGGCGTAGTTGCA
GCGGGGGCTTGGGAGGGGCTGGGGTTGGACGGGATTGAGGAAGGTCCGCACAGCCTGTCTCTGCTCAGTTGCA
ATAAACGTGACATCTTGGGAGCGTTAAAAAAAAAAAAAA

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FIGURE 458

MRLALLWALGILLGAGSPLPSWPLPNIGGTEEQAESEKAPREPLEPQVLQDDLPISLKKVLQTSLEPLRIKLEL
DGDShILELLQNRELVPGRPTLVWYQPDGTRVVSEGHTLENCYQGRVRYAGSWVSICTCSGLRGLVVLTPERS
YTLEQGPGLQGPPIISRIQDLHLPGHTCALSWARESVHTQTPPEHPLGQRHIRRRRDVVTETKTVELVIVADHSE
AQKYRDFQHLLNRTLEVALLLDTFFRPLNVRVALVGLEAWTQRDLVEISPNAVTLENFLHWRRRAHLLPRLPHDS
AQLVTGTSFSGPTVGMAIQNSICSPDFSGGVNMDHSTSILGVASSIAHELGHSLGLDHDLPGNSCPCPGPAPAKT
CIMEASTDFLPGLNFSNCSRRALEKALLDGMGSCLFERLPSLPPMAAFCGNMFVEPGEQCDCGFLDDCVDPCDS
LTCQLRPGAQCASDGPCQCNCQLRPSGWQCRPTRGDCDLPEFCPGDSSQCPPDVSLGDGEP CAGGQAVCMHGRCA
SYAQQCQSLWGPQAQPAAPLCLQTANTRGNAFGSCGRNPSGSYVSCTPRDAICGQLQCQTGRTQPLLSIRDLLW
ETIDVNGTELNCSSWVHLDLGSDDVAQPLLTLPGTACGPGLVLCIDHRCQRVDLLGAQECRSKCHGHGVCDNHRHCYC
EEGWAPPDCTTQLKATSSLTGLLSLVLLVLMGAGYWYRRLHQLCQLKGPTCQYRAAQSGPSEPFPGPQ
RALLARGTKSQGPAKPPPPRKLPAADPQGRCPSGDLPGPGAGIPPLVVPSPAPPPPTVSSLYL

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FIGURE 459

CGACTTTCCCGATCGCCAGGCAGGAGTTTCTCTCGGTGACTACTATCGCTGTCATGCTGGTCGTGGCAAGCAAG
GAGGCAAGGCCCCGCGCCAAGGCCAAGTCGCGCTCGTCCCGCGCTGGCCTTCAGTTCCCGGTAGGGCGAGTGCATC
GCTTGCTGCGCAAAGGCAACTACGCGGAGCGAGTGGGGGCCGGCGCGCCCGTCTACATGGCTGCGGTCTCTCGAGT
ATCTGACCGCCGAGATCCTGGAGCTGGCGGGCAACGCGGCTCGGGACAACAAGAAGACGCGCATCATCCCTCGTC
ACCTCCAGCTGGCCATCCGCAACGACGAGGAAGTGAACAAGCTGCTGGGCAAAGTCACCATCGCCCAGGGCGGGCG
TCTTGCCCTAACATCCAGGCCGTACTGCTCCCTAAGAAGACGGAGAGTCACCACAAGGCAAAGGGCAAGTGAAGGCT
GACGTCCGGCCCCAAGTGGGCCAGCCCGGCCCGCGTCTCGAAGGGGCACCTGTGAACTCAAAGGCTCTTTTCAG
AGCCACCCA

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FIGURE 460

MSGRGKQGGKARAKAKSRSSRAGLQFPVGRVHRLLRKGNYAERVGAGAPVYMAAVLEYLTAEILELAGNAARDNK
KTRIIIPRHLQLAIRNDEELNKLLGKVTIAQGGVLPNIQAVLLPKKTESHKKAKGK

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FIGURE 461

CTTTCGCCATGGCTGCCGGGCCGATCTCCGAGCGGAATCAGGATGCCACTGTGTACGTGGGGGGCCTGGATGAGA
AGGTTAGTGAACCGCTGCTGTGGGAACCTGTTTCTCCAGGCTGGACCAGTAGTCAACACCCACATGCCAAAGGATA
GAGTCACTGGCCAGCACCAAGGCTATGGCTTTGTGGAATTCTTGAGTGAGGAAGATGCTGACTATGCCATTAAGA
TCATGAACATGATCAAACCTCTATGGGAAGCCAATACGGGTGAACAAAGCATCAGCTCACAACAAAAACCTGGATG
TAGGGGCCAACATTTTTCATTGGGAACCTGGACCCTGAGATTGATGAGAAGTTGCTTTATGATACTTTCAGCGCCT
TTGGGGTCATCTTACAAACCCCCAAAATTATGCGGGACCCTGACACAGGCAACTCCAAAGGTTATGCCTTTATTA
ATTTTGCTTCATTTGATGCTTCGGATGCAGCAATTGAAGCCATGAATGGGCAGTACCTCTGTAACCGTCCTATCA
CCGTATCTTATGCCTTCAAGAAGGACTCCAAGGGTGAGCGCCATGGCTCAGCAGCCGAACGACTTCTGGCAGCTC
AGAACCCGCTCTCCCAGGCTGATCGCCCTCATCAGCTGTTTGAGATGCACCTCCTCCACCCTCTGCTCCCAATC
CTGTGGTATCATCATTGGGGTCTGGGCTTCCTCCACCAGGCATGCCTCCTCCTGGCTCCTTCCCACCCCCAGTGC
CACCTCCTGGAGCCCTCCACCTGGGATACCCCCAGCCATGCCCCACCACCTATGCCTCCTGGGGCTGCAGGAC
ATGGCCCCCATCGGCAGGAACCCAGGGGCAGGACATCCTGGTCATGGACACTCACATCCTCACCCATTCCCAC
CGGGTGGGATGCCCCATCCAGGGATGTCTCAGATGCAGCTTGACACCATGGCCCTCATGGCTTAGGACATCCCC
ACGCTGGACCCCCAGGCTCTGGGGGCCAGCCACCGCCCCGACCACCACCTGGAATGCCTCATCCTGGACCTCCTC
CAATGGGCATGCCCCCGAGGGCCTCCATTTCGGATCTCCCATGGGTACCCAGGTCTATGCCTCCGCATGGTA
TGCGTGGACCTCCTCCACTGATGCCCCCATGGATACACTGGCCCTCCACGACCCCCACCCTATGGCTACCAGC
GGGGGCCTCTCCCTCCACCCAGACCCACTCCCCGGCCACCAGTTCCCCCTCGAGGCCCACTTCGAGGGCCCTCTCC
CTCAGTAAATTCACATTTTCTTCTCTGTTACATTTTCCCAATATCTTTTCTATTCTTGGACCAATCAGAGA
TGCTGTAGCTCCTTGGGGCAAAGGTACTAATCCCTTTTACGACCCCCACTCCATTCCCCTTTTAAATGTAACCTT
TTCCACAGGAGGTATTTCTTTTATGTTGGTCCTGAGTATTTTGCAATGCACAGAGAAAATAAACTAAACTC
CTTGTTAAAAAAAAAAAAAAAAAAAAA

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FIGURE 462

MAAGPISERNQDATVYVGGLDEKVSEPLLWELFLQAGPVVNTHMPKDRVTGQHQGYGFVEFLSEEDADYAIKIMN
MIKLYGKPIRVNKASAHNKNLDVGANIFIGNLDPEIDEKLLYDTFSAFGVILQTPKIMRDPDTGNSKGYAFINFA
SFDASDAAIEAMNGQYLCNRPI TVSYAFKKDSKGERHGSAAERLLAAQNPLSQADRPHQLFADAPPPPSAPNPVV
SSLGSGLPPPGMPPPGSFPPPVPPPGALPPGIPPAMPPPPMPPGAAGHGPPSAGTPGAGHPGHGHSHPHPFPPGG
MPHPGMSQMLAHHGPHGLGHPHAGPPGSGGQPPRPFPMPHPGPPPMGMPPRGPPFGSPMGHPGPMPPHGMRG
PPPLMPPHGYTGPPRPPPYGYQRGFLPPRPPTPRPPVPPRGPLRGPLEQ

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FIGURE 463A

GCCGGGAGCAGTCGCCGCTGCCGCTCCGCCCGCGGCCGGGACCCCGTCCTCGCCCGGGACTCCTTACCCGGGG
AACCTAGACCAGGTCTCCAGAGGCTTGTGGAAGAGAAGCAGGCGACCCCTTCCTGAGTTATCCTGGCTTAGCCTCC
CAATCTGGCTCCCCCTTCCCCCTCCCATTCCTGCTCCCCCTGTCCCTTCCCCATCCACCCAACTGAACTGGGTA
TAGGTCAAAGCTCCTCTCCTTCTTCTTCTCCTTAGGCACTCATTGGCTAGGACCTGTTTGCTCTTTTTTTTGTG
CCCAGAGATACTGGAACACGCTTCATCTAAGTAAGTGTGGGGAGGGGTCTTTTGACTCTACAAGTCCCTTGAGCA
AAAAGCTGAAAAAGAAGCAGGAGGTGGAGAAGACCCAGTGAAGTGCCCCAAGCCCCATCATGGAAGAGGGCTTCC
GAGACCGGGCAGCTTTTCATCCGTGGGGCCAAAGACATTGCTAAGGAAGTCAAAAAGCATGCGGCCAAGAAGGTGG
TGAAGGGCCTGGACAGAGTCCAGGACGAATATTCCCGAAGATCGTACTCCCGCTTTGAGGAGGAGGATGATGATG
ATGACTTCCCTGCTCCCAGTGTGTTATTACCGAGGAGAAGGGACCCAGGATGAGGAGGAAGGTGGTGCATCCA
GTGATGCTACTGAGGGCCATGACGAGGATGATGAGATCTATGAAGGGGAATATCAGGGCATTCCCCGGGCAGAGT
CTGGGGGCAAAGCGAGCGGATGGCAGATGGGGCGCCCTGGCTGGAGTAAGGGGGGGCTTGAGTGATGGGGAGG
GTCCCCCTGGGGGCCGGGGGGAGGCACAACGACGGAAAGAACGAGAAGAACTGGCCCCAAGTATGAAGCCATCC
TACGGGAGTGTGGCCACGGCCGCTTCCAGTGGACACTGTATTTTGTGCTTGGTCTGGCGCTGATGGCTGACGGTG
TGGAGGTCTTTTGTGGTGGGCTTCGTGCTGCCAGCGCTGAGAAAGACATGTGCCTGTCCGACTCCAACAAAGGCA
TGCTAGGCCTCATCGTCTACCTGGGCATGATGGTGGGAGCCTTCCTCTGGGGAGGTCTGGCTGACCGGCTGGGTC
GGAGGCAGTGTCTGCTCATCTCGCTCTCAGTCAACAGCGTCTTCGCCTTCTTCTCATCTTTTGTCCAGGGTTACG
GCACTTTTCTCTTCTGCGCCCTACTTTCTGGGGTTGGGATTGGAGGGTCCATCCCCATTGTCTTCTCCTATTCT
CCGAGTTTCTGGCCCAGGAGAAACGAGGGGAGCAATTGAGCTGGCTCTGCATGTTTTGGATGATTGGTGGCGTGT
ACGCAGCTGCTATGGCCTGGGCCATCATCCCCACTATGGGTGGAGTTTTTCAGATGGGTCTGCCTACCAGTTCC
ACAGCTGGAGGGTCTTCGTCTCGTCTGCGCCTTTCCTTCTGTGTTTGCCATTGGGGCTCTGACCACGCAGCCTG
AGAGCCCCCGTTTCTTCTAGAGAATGGAAAGCATGATGAGGCCTGGATGGTGTGTAAGCAGGTCCATGATACCA
ACATGCGAGCCAAAGGACATCCTGAGCGAGTGTCTCAGTAACCCACATTAAGACGATTTCATCAGGAGGATGAAT
TGATTGAGATCCAGTCGGACACAGGGACCTGGTACCAGCGCTGGGGGGTCCGGGCCCTTGAGCCTAGGGGGGCAGG
TTTGGGGGAATTTTCTCTCCTGTTTTTGGTCCCGAATATCGGCGCATCACTCTGATGATGATGGGTGTGTGGTTCA
CCATGTCTATTAGCTACTATGGCCTGACCGTCTGGTTTCTGACATGATCCGCCATCTCCAGGCAGTGGACTACG
CATCCCGCACCAAAGTGTTCCTCCGGGGAGCGCGTAGAGCATGTAATTTTAACTTCAGTTGGAGAATCAGATCC
ACCGAGGCGGGCAGTACTTCAATGACAAGTTTCAATGGGCTGCGGCTCAAGTCAGTGTCTTTGAGGATTCCCTGT
TTGAAGAGTGTATTTTGGAGATGTACATCCAGCAACACGTTTTTCCGCACTGCACATTTCATCAACACTGTGT
TCTATAACACTGACCTGTTCGAGTACAAGTTTGTGAACAGCCGTCTGATAAACAGTACATTCTGCACAACAAGG
AGGGCTGCCCGCTAGACGTGACAGGGACGGGCGAAGGTGCTACATGGTATACTTTGTGAGCTTCCTGGGGACAC
TGGCAGTGCTTCCTGGGAATATCGTGTCTGCCCTGCTCATGGACAAGATCGGCAGGCTCAGAATGCTTGGCT
CCAGCGTATGTCTGTGTCTCCTGCTTCTTCTGCTTTTGGGAACAGTGAGTCGGCCATGATCGCTCTGCTCT
GCCTTTTTGGCGGGTCAAGATTGCATCCTGGAATGCGCTGGACGTGTGACTGTTGAACTTACCCCTCAGACA
AGAGGACCACAGCTTTTGGCTTCCTGAATGCCCTGTGTAAGCTGGCAGCTGTGCTGGGGATCAGCATCTTCACAT
CCTTCGTGGGAATCACCAGGCTGCACCATCCTCTTTGCCCTCAGCTGCCCTTGCCCTTGGCAGCTCTCTGGCCC
TGAAGCTGCCTGAGACCCGGGGGCAGGTGCTGCAGTGAAGGGGTCTCTAGGGCTTTGGGATTGGCAGGCACACTG
TGAGACCAACAACCTCCTTCCTTCCCCCTCCCTGCCCTGCCATCCTGACCTCCAGAGCCCTCACTCCCCACTCCCCG
TGTTTGGTGTCTTAGCTGTGTGTGCGTGTGCGTGTGCATGTGTGTAACCCCGTGGGCAGGGACTACAGGGAAGG
CTCCTTCATCCCAGTTTTGAGATGAAGCTGTACTCCCCATTTCCTCACTGCCCCTTGACTTTGCACAAGAGAAGGCT
GAGCCCCATCCTTCTCCCCCTGTTAGAGAGGGGCCCTTGCTTCCCTGTTCCAGGGGTTCCAGAATAGGCTTCCTG
CCTTCCCCATCATTCCCTCTGCCTAGGCCCTGGTGAAACCACAGGTATGCAATTATGCTAGGGGCTGGGGCTCTG
GTGTAGACCATGGACAAAAGAACTTCTTAGAGTCTGAAGATGGGCCTCGGGTGCCTCTCACATCTCCTGTTG
GATGCTGGGGGAGAAGCAATAAACCTCAGCCCTCTGGCCTCCACTTTCCTCTCAATTTGGGCTGCAAAATATGAAG
CCTGAATTTTATGAAATAGCTTTCTGATTCTTATTTATTAATAGATTAAAGTCTGAGGCAGCTCCGAGGACTG
TGTGTGAATGTGTATGATACTTACATAATGTGTGTGCATGTGCCATGGGGCGGGGGTATCACTATACTGTCTC
AAATATAAGCCAAGGGTAATTTTACGCGGATGCACACACAACCTGCCTCCACAGTTTCTCCCCCTAATCTGGTTT
CTGTGTGAGCCTGGGATGGAGGAGCCCTAGGCCAGCCTGGGATAAGAGTCCACAGTCTAGGGAGATCTGAGGG
CATCCGACAAGGCCCATCTCCTTCCCTCCTCAAGAAGCAGAGGCCCTCCTCTGGAGTGAGAGGCTCCACCCACTAC

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FIGURE 463B

AGCACAGGCGGGAATAGCACAGCTGCCCTCCCATGCTCCCTACCTGTCCCCTCACAGGGAGGGGAGCAGGGGAGG
GAAAGAAACCAGGCATCTGGTCAAACCAGCAGATCAAAAAGCACAAAGAGCTGGGGCAGAGGCAGGAAGCAGGGG
CCCTCCTGGCAGCTCCTCTGAGTGGGGAGAGGTTGGGCAGTGAGTGAGGGACCCCTAATGCAGGGACTAGAAGCC
TCAGTTTCCCCATTTTACCCTTCCACACAATAGCCTCTGTAGGTTAGGCTGCCCCATCCCACCCTACTCTGTGTG
GCTGCTTTCTTTGGTGCCCTCCCCTCACCCCACTGTAGCTGTGACGTGTTGTAGTTTTTAGATGTTTGTAATG
TTTAAAAAATGTTAAAGGAAAAAAGTGAATAACAAAAAGAAAATCAAATTCACCTTCGTCATGCTGCGT
CCAGTGCCCCAACCCCTGTGGTCACTCTCCCATTTTGTAACTGTACCAGGTGGTGACTGTTTAACTCTTTGGT
GTCTGTGCTCAAAGACTGCCCTTCTCCAGTGCCCACTGTATGAGTGTGTGCCCTGTGCCCTTGCTCTCCTGGGAACC
CACATGCTGGACGTAGCCCTCTTCTCGCACCCCTGGGAGGGACCCATCCATCTCCCTTGCTCTCCTGGGAACC
CTAAACCAACTCTGTTGATGTGAAAAATGCAGTGAAAAATATTGACGAAAAATAAACGGAAACAAATCCTCAA
AAT

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FIGURE 464

MEEGFRDRAAFIRGAKDIAKEVKKHAAKKVVKGLDRVQDEYSRRSYSRFEEEDDDDDFPAPSDGYRGEQTQDEE
EGGASSDATEGHDEDEIYEGEYQGIPRAESGGKGERMADGAPLAGVRGGLSDGEGPPGGRGEAQRKEREELAQ
QYEAILRECGHGRFQWTLYFVLGLALMADGVEVFVVGFLVPSAEKDMCLSDSNKGMLGLIVYLGMMVGAFLWGGL
ADRLGRRQCLLISLVNSVFAFFSSFVQGYGTFLFCRLLSGVGIGGSIPIVFSYFSEFLAQEKRGHLSWLCMF
MIGGVYAAAMAWAIIPHYGWSFQMGSAQYQFHSWRVFLVCAFPVFAIGALTTQPESPRFFLENGKHDEAWMVLK
QVHDTNMRAKGHPERVSFVTHIKTIHQEDELIEIQSDTGTWYQRWGVRLSLGGQVWGNFLSCFGPEYRRITLMM
MGVWFTMSFSYYGLTVWFPMIRHLQAVDYASRTKVFPGERVEHVTFTNFTLENQIHRGGQYFNDKFIGLRLKSVS
FEDSLFEECYFEDVTSSNTFFRNCTFINTVFYNTDLFEYKFVNSRLINSTFLHNKEGCPLDVTGTGEGAYMVYFV
SFLGTLAVLPGNIVSALLMDKIGRLRMLAGSSVMSCVSCFFLSFGNSESAMIALLCFFGGVSIASWNALDVLTV
LYPSDKRTTAFGLNALCKLA AVLGISIFTSFVGITKAAPILFASAALALGSSLALKLPETRGOVLQ

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FIGURE 465

GGCAGGAAAAGCGGAAGAGGGAGCGAAAACCAACGTGTTTCGGTGACAGACCCCAGCGCCGACTGAGCCTCTAAAG
CGACTTCAGCTCTGCCCCACCAACACCACCGCGCGCCCGGGAACAGCCGCTCCGGGAAGAAACCTGAGGGGACTG
CGGGGGGCACGAGGGACAGCTGAGGGAAGGGAGGACGCGAGAGAAAACAGCGCGAGCACGCTGAGGGCCGGGGGTT
GCCAGGAGAGGGGCCCCGCGGACCCGACAGCGGAGGAAGGTCCGGGAGAAAAGGGGCGGGACGGAGGAGAATCCG
GGATCGCCTGGCAGAAAAGAGAAGGGAGTTTCTGAATCCTGGGAAGAGGAGCGTGGGTAGGGACGCTTAGCCC
GAGATCCGACAGCAGGGAACCGGAGCGCTCCGGGGGAGGGGCTTAATGCTGGGGAAGGGATGTCTTAAAGAGGA
GAAGCTTTAAATTAGACGATCGGAGAAGGCTGAGGGAATTGCTATGAAGGGGCGGGAGCTGAAGTGTAGAGGACT
CCTTTAGACAGCAGAAAGGGAAGCCGTTGAGAAGTTCCCTTCAAACCTCCACCTGCCTCCTCTCCAATTCAAACCT
CCACTCCCTTCTCCTAAAAGTTAAAAGGAAAGCCAAGTTTACCACGCTCCCCTGTTCCCTACTCAATAAATACTTCT
TCTACTCCGCCACCGGGAACAGAAAAAACTAATTTCCCTTCCCAATATTAGGACTTAGAAAAGCTCTAGGT
CCCGCAATTTGAATTTTAGCCTAGGGGAATCAAATAGTAGGAGCATTACTCTTGTTTCTTTTTCAAATCCCA
CACCTCATCTTCTGCGACGCCATGTCCACCAACATTTGTAGTTTCAAGGACAGGTGCGTGTCCATCCTGTGTT
GCAAATTCGTAAACAAGTGCTCAGCTCTAGGGGAATGAAGGCTGTTTTGCTGGCTGATACTGAAATAGACCTTT
TCTCTACAGACATCCCTCCTACCAACGCAGTGGACTTCACTGGAAGATGCTATTTACCAAAATCTGCAAATGTA
AACTGAAGGACATCGCATGTTTAAAATGTGGGAACATTGTAGGTTATCATGTGATTGTTCCATGTAGTTCCTGTC
TTCTTTCTGCAACAACAGACACTTCTGGATGTTTACAGCCAGGCAGTTTATGATATTAACAGACTAGACTCCA
CAGGTGTAAACGTCCTACTTCGGGGCAACTTGCCAGAGATAGAAGAGAGTACAGATGAAGATGTGTTAAATATCT
CAGCAGAGGAGTGATTAGATAAATGGAATTATGATATATATGATATACAACTTTTTTCTATTTAAAAATATAT
TAATGGATCAACTTTAAATTTAGTTGCCAGTGATCTTTTTTGAAAAACAAAATGGGGCATTGTTGATTTA
TTTATTTTCTGTCTCTAATTAGTTACCTCAGTTTGATTGAAGCCAGTGGAGTTGTGCTTTTCTCTACTTCTACT
TCCTCTCCCCACCTTTTTTCTGCCCAGTGTTAGGTGATTTCTTAAATTCAGACGGGAAGATTCTTTCACATATCAC
TCAGTTACCTCCCAATCTGGGGGAGTTTTTCTTACAACCTTGATACCAGATACCATTAAATTTACATTCTGAATA
AAGGCCTAGTACCCACGCATATTTCAACCATGCATATATCAAGTTCAACCGAGTTTAAATAGGGGATTAAAAAA
CAAGCTGTTAGGTTTCCATGGGCACTGGTTCTCATAGGTTCTATTGGTGATAACTGCTTTAACATGGAGCAAGAG
TTTGTGAATCAGGAAATAGAATAAATTTAAATTTAAATATATAGAGGAATCCTCTTGATTGCTCAGCATGATGT
TAGATAAATGAGTTTGTGAGAAAATATCAGTATACGCTGTTTACCAATGTTATTTATTTACATTCTTCTAAAGCC
ATTATGGATATTGTATTATGAGAGCTAAACCTAAATAAGTTATCCTGTTCCCTAGGACCTTCTCTGTAAATAGTG
AATTTTAGACGAGTGGTCTGTCTAAATCTTAAATAGAAAAAACTAAAGCGATTGCTTAAGCCATTGTACA
TTATAAGAGCTGTTTTGTTTGTCTTGTCTTGTGTTTTGTTTTTAAAGCTGCATTACAGAGCTACAAAGG
AATAGGAAAGTAGGGTAGTGTGGATTCTGGTTTTATGTAACCTTAAATAAATGTATCTCTTAAATATCTCAGT
TGTAGGGATTTGTCAATACCAAGCAGACTGAGTTGTGGTTTTGTAAATAAAGTTTTTCTAAAAATGACCATT
CTTCCTTTAATTTTTGTTATGCCACATATTGTATGTAAATAAATAAATAGTACTTAAAGTAT

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FIGURE 466

CAGCAGTGCTGTTTACTCATTGGAGGAACAGTACCTTGGCTTGGCTCTTGACGTGGACAGAATTAAAAAGGACCA
AGAAGAGGAAGAAGACCAAGGCCACCATGCCCCAGGCTCAGCAGGGAGCTGCTGGAGGTAGTAGAGCCTGAAGT
CTTGCCAGGACTCACTGGATAGATGTTATTCAACTCCTTCCAGTTGTCTTGAACAGCCTGACTCCTGCCAGCCCTA
TGGAAGTTCCTTTTATGCATTGGAGGAAAAGCATGTTGGCTTTTCTCTTGACGTGGGAGAAATTGAAAAGAAGGG
GAAGGGGAAGAAAAGAAGGGGAAGAAGATCAAAGAAGGAAAGAAGAAGGGGAAGAAAAGAAGGGGAAGAAGATCA
AAACCCACCATGCCCCAGGCTCAGCAGGGAGCTGCTGGATGAGAAAGGGCCTGAAGTCTTGCAGGACTCACTGGA
TAGATGTTATTCAACTCCTTCAGGTTGTCTTGAAGTGAAGTCACTGATGCCAGCCCTACAGAAGTGCCTTTTACAT
ATTGGAGCAACAGCGTGTGGCTTGGCTGTTGACATGGATGAAATTGAAAAGTACCAAGAAGTGGAGAAGACCA
AGACCCATCATGCCCCAGGCTCAGCGGGGAGCTGTTGGATGAGAAAGAGCCTGAAGTCTTGCAGGAGTCACTGGA
TAGATGCTATTCAACTCCTTCAGGTTGTCTTGAAGTGAAGTCACTGATGCCAGCCCTACAGAAGTGCCTTTTACAT
ATTGGAGCAACAGCGTGTGGCTTGGCTGTTGACATGGATGAAATTGAAAAGTACCAAGAAGTGGAGAAGACCA
AGACCCATCATGCCCCAGGCTCAGCAGGGAGCTGCTGGATGAGAAAGAGCCTGAAGTCTTGCAGGACTCACTGGG
TAGATGTTATTGCACTCCTTCAGGTTATCTTGAAGTGCCTGACTTAGGCCAGCCCTACAGCAGTGCTGTTTACTC
ATTGGAGGAACAGTACCTTGGCTTGGCTCTTGACGTGGACAGAATTAAAAAGGACCAAGAAGAGGAAGAAGACCA
AGGCCACCATGCCCCAGGCTCAGCAGGGAGCTGCTGGAGGTAGTAGAGCCTGAAGTCTTGCAGGACTCACTGGA
TAGATGTTATTCAACTCCTTCCAGTTGTCTTGAACAGCCTGACTCCTGCCAGCCCTATGGAAGTTCCTTTTATGC
ATTGGAGGAAAAACATGTTGGCTTTTCTCTTGACGTGGGAGAAATTGAAAAGAAGGGGAAGGGGAAGAAAAGAAG
GGGAAGAAGATCAAAGAAGGAAAGAAGAAGGGGAAGAAAAGAAGGGGAAGAAGATCAAACCCACCATGCCCCAG
GCTCAACAGCATGCTGATGGAAGTGAAGAGCCTGAAGTCTTGCAGGACTCACTGGATATATGTTATTGCACTCC
GTCAATGTACTTTGAAGTACCTGACTCATTCCAGCACTACAGAAGTGTGTTTTACTCATTGAGGAAGAGCATAT
CAGCTTCGCCCTTTACGTGGACAATAGGTTTTTTACTTTGACGGTGACAAGTCTCCACCTGGTGTTCAGATGGG
AGTCATATTCCCACAATAAGCAGCCCTTACTAAGCCGAGAGGTGTCATTCCCTGCAGGCAGGACCTATAGGCAGT
GAAGATTTGAATGAAAGTACAGTTCCATTTGGAAGCCCAGACATAGGATGGGTCAGTGGGCATGGCTCTATTCCCT
ATTCTCAAACCATGCCAGTGGCAACCTGTGCTCAGTCTGAAGACAATGGACCCACGTTAGGTGTGACACGTTTAC
ATAACTGTGCAGCACATGCCGGGAGTGATCAGTCAGACATTTTAATTGAACCACGTATCTCTGGGTAGCTACAA
AATTCCTCAGGGATGTCATTTTGCAGGCATGTCTCTGAGCTTCTATACCTGCTCAAGGTCATTGTCTATCTTTGTG
TTTAGCTCATCCAAAGGTGTTACCTGGTTTCAATGAACCTAACCTCATTCTTTGTGCTTTCAGTGTGGCTTGT
TTTAGCTGATCCATCTGTAAACACAGGAGGGATCCTTGGCTGAGGATTGTATTTAGAACCACTGCTCTTGA
CAATTGTTAACCCGCTAGGCTCCTTTGGTTAGAGAAGCCACAGTCCTTCAGCCTCCAATTGGTGTGACTACTTAG
GAAGACCACAGCTAGATGGACAAACAGCATTGGGAGGCCTTAGCCCTGCTCCTCTCAATTCCATCCTGTAGAGAA
CAGGAGTCAGGAGCCGCTGGCAGGAGACAGCATGTCACCCAGGACTCTGCCGGTGCAGAATATGAGCAATGCCAT
GTTCTTGAGAAAACGCTTAACCTGAGTTTCATAGGAGGTAATCACCAGACAAGTGCAGAATGTAGAACTGAG
CAGGACAAGTACCTGTCTCCTTCACATAGTCCATATCACCACAAATCACACAACAAAAAGGAGAAGAGATATTT
TCGGTTGAAAAAAGTAAAAAGATA

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FIGURE 467

MDEIEKYQEVEEDQDPSCPRLSRELLDEKEPEVLQDSLGRCYSTPSGYLELPDLGQPYSSAVYSLEEQLGLALD
VDRIKKDQEEEEEDQGPPCPRLSRELLEVAEPEVLQDSLDRCYSTPSSCLEQPDSCQPYGSSFYALEEKHVGFSLD
VGEIEKKKGKGRGRRSKERRRGRKEGEEDQNPPCPRLNGVLMEVEEPEVLQSLDICYSTPSMYFELPDSFQ
HYRSVFYSFEEHISFALYVDNRFFTLTVTSLHLVFQMGVIFTQ

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FIGURE 468

ATGACGCGAGACCCCGCCCCGCGAGCGCCCGCTTCCAAGATGGCGGCAGCGATGCCTGCCCCGGCTGTTGGGGTGG
CGGTGACGACAGGCAGCAAAAGACCAGCTGGTCCCAGATTGCTGCTGGAGTGCTGGATGGAGCCTTTCTCTGCC
CTCTGTGACATTTCCAATTTTAGATAATGCCTCACATCTCTGTCCCCCGGGACCCCTGGAGCCCCCATGATCC
CTAAGAAGACAGCTTGAACCTAGATCTCACCCCCAGGATGTTGCGGAGGCTGCTGGAGCGGCCTTGCACGCTGGC
CCTGCTTGTGGGCTCCCAGCTGGCTGTCATGATGTACCTGTCACTGGGGGGCTTCCGAAGTCTCAGTGCCCTATT
TGGCCGAGATCAGGGACCGACATTTGACTATTCTCACCCCTCGTGATGTCTACAGTAACCTCAGTCACTGCCTGG
GGCCCCAGGGGGTCTCCAGCTCCCAAGGTCTGCCCTACTGTCCAGAACGATCTCCTCTCTTAGTGGGTCTGT
GTCGGTGTCTTTAGCCCACTGCCATCACTGGCAGAGATTGTGGAGCGGAATCCCCGGGTAGAACCAGGGGGCCG
GTACCGCCCTGCAGGTTGTGAGCCCCGCTCCCGAACAGCCATCATTGTGCCTCATCGTGCCCGGGAGCACACCT
GCGCCTGCTGCTCTACCACCTGCACCCCTTCTTGACGCGCCAGCAGCTTGCTTATGGCATCTATGTATCCACCA
GGCTGGAAATGGAACATTTAACAGGGCAAACTGTTGAACGTTGGGGTGGAGAGGCCCTGCGTGATGAAGAGTG
GGACTGCCTGTTCTTGACGATGTGGACCTCTTGCCAGAAAATGACCACAATCTGTATGTGTGTGACCCCCGGGG
ACCCCGCCATGTTGCCGTTGCTATGAACAAGTTTGGATACAGCCTCCCGTACCCCACTACTTCGGAGGAGTCTC
AGCACTTACTCCTGACCAGTACCTGAAGATGAATGGCTTCCCCAATGAATACTGGGGCTGGGGTGGTGAGGATGA
CGACATTGCTACCAGGGTGGCCTGGCTGGGATGAAGATCTCTCGGCCCCCACATCTGTAGGACACTATAAGAT
GGTGAAGCACCGAGGAGATAAGGGCAATGAGGAAAATCCCCACAGATTGACCTCCTGGTCCGTACCCAGAATTC
CTGGAUGCAAGATGGGATGAACTCACTGACATACCAGTTGCTGGCTCGAGAGCTGGGGCCTCTTTATACCAACAT
CACAGCAGACATTGGGACTGACCTCGGGGTCTCGGGCTCCTTCTGGGCCACGTTACCCACCTGGTTCTCCCA
AGCCTTCCGTCAAGAGATGCTGCAACGCCGGCCCCCAGCCAGGCCTGGGCCTCTATCTACTGCCAACCACACAGC
CCTCCGAGGTTACACTGACTCCTCCTTCTGTCTACCTAATCATGAAACCGAATTCATGGGGTTGTATTCTCC
CCACCCTCAGCTCCTCACTGTTCTCAGAGGGATGTGAGGGAAGTGAACCTGCTGCGGTGCTAGGGGGTAGGGGC
CTCTCCCTCACTGCTGGACTGGAGCTGGGCTCCTGTAGACCTGAGGGGTCCCTCTCTCTAGGGTCTCCTGTAGGG
CTTATGACTGTGAATCCTTGATGTATGATTTTATGTGACGATTCTAGGAGTCCCTGCCCTAGAGTAGGAGCA
GGGCTGGACCCCAAGCCCCCTCCCTCTTCATGGAGAGAAGAGTGATCTGGCTTCTCCTCGGACCTCTGTGAATAT
TTATTCTATTTATGTTCCCGGAAGTTGTTTGGTGAAGGAAGCCCTCCCTGGGCATTTTCTGCCTATGCTGGA
ATAGCTCCCTCTTCTGGTCTGGCTCAGGGGGCTGGGATTTTGATATATTTCTAATAAAGGACTTTGTCTCGC

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FIGURE 469

MLRRLLEPCTLALLVGSQ LAVMMYLSLGGFRSL SALFGRDQGPTFDYSHPRDVYSNL SHLPGAPGGPPAPQGLP
YCPERSPLLVG PVSVSFSPVPSLAEIVERNPRVEPGGRYRPAGCEPRSRTAIIVPHRAREHHLRLLLYHLHPFLQ
RQQLAYGIYVIHQAGNGTFNRAKLLNVGVREALRDEEWDCFLHDVDLLPENDHNLYVCDPRGPRHVAVAMNKFG
YSLPYPQYFGGVSA LTPDQY LKMNGFPNEYWGWGGEDDDIATRVRLAGMKISRPP TSVGHYKMKVHRGDKGNEEN
PHRFDLLVRTQNSWTQDGMNSLT YQLLARELGPLYTNITADIGTDPRGPRAPSGPRYP PGSSQAFRQEMLQRRPP
ARPGPLSTANHTALRGSH

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FIGURE 470

GGCACGAGGGCCCCAGGAGAGGCAGAGAGTGAGGGAAAGGGCCTGGCCGGCATGCACAGATAGGATCACGGTCTCT
GGGAGAATTCTGCTCTTATAGTCTAACCTACCATGGCTTCTCTTTCTCAAGGCTCCCTCATGCTGCCCTTTGG
CCCTAGTGGCTGGTTTCCAGGGCTGAGGGGACTGAGTGAGCTGCCTGAGAAAAGAGGGTAGGGAACAGAAAAGCC
AGCCAGGAGCTGTGGGAGGAAACGCCCTCAGTAAAGATGACCGCGGTCACTGTTATCTAAACGCAAGTGAAGCCG
AGTCACAGGACCCGGATGTTGTGTCAGTTTCGACGGTAAACGACCCTGCCAGCTTCCAAGAGGGCGGCTTCACTGTGC
GAATAGGTGAGAAGCCAAGAAGGAGGCGCGCTGGAGTTACTTCCGCCCGGTTCTCCTTCCCGCAGTCTGCAGCCG
GAGTAAGATGGCGCGCTGAGGGCTTTGTGCGGCTTCCGGGGCGTCGCGGCCAGGTGCTGCGGCCTGGGGCTGG
AGTCCGATTGCCGATTCAGCCCAGCAGAGGTGTTCCGCGAGTGGCAGCCAGATGTGGAATGGGCACAGCAGTTTGG
GGGAGCTGTTATGTACCCAAGCAAAGAAACAGCCCACTGGAAGCCTCCACCTTGAATGATGTGGACCCTCCAAA
GGACACAATTGTGAAGAACATTACCTGAACCTTTGGGCCCAACACCCAGCAGCGCATGGTGTCTTGCAGCTAGT
GATGGAATTGAGTGGGAGATGGTGCAGAGTGTGATCCTCACATCGGGCTCCTGCACCGAGGCACTGAGAAGCT
CATTGAATACAAGACCTATCTTCAGGCCCTTCCATACTTTGACCGGCTAGACTATGTGTCCATGATGTGTAACGA
ACAGGCCTATTCTCTAGCTGTGGAGAAGTTGCTAAACATCCGGCCTCCTCCTCGGGCACAGTGGATCCGAGTGCT
GTTTGGAGAAATCACACGTTTGTGTAACCACATCATGGCTGTGACCACACATGCCCTGGACCTTGGGGCCATGAC
CCCTTTCTTCTGGCTGTTTGAAGAAAGGGAGAAGATGTTGAGTTCTACGAGCGAGTGTCTGGAGCCCGAATGCA
TGCTGCTTATATCCGCCAGGAGGAGTGCACCAGGACCTACCCCTTGGGCTTATGGATGACATTTATCAGTTTTT
TAAGAACTTCTCTCTTCGGCTTGATGAGTTGGAGGAGTTGCTGACCAACAATAGGATCTGGCGAAATCGGACAAT
TGACATTGGGGTTGTAACAGCAGAAGAAGCACTTAACATATGGTTTTAGTGGAGTGATGCTTCGGGGCTCAGGCAT
CCAGTGGGACCTGCGGAAGACCCAGCCCTATGATGTTTTACGACCAGGTTGAGTTGATGTTCCIGTTGGTTCTCG
AGGGGACTGCTATGATAGGTACCTGTGCCGGGTGGAGGAGATGCGCCAGTCCCTGAGAATTATCGCACAGTGTCT
AAACAAGATGCCTCCTGGGGAGATCAAGGTTGATGATGCCAAAGTGTCTCCACCTAAGCGAGCAGAGATGAAGAC
TTCCATGGAGTCACTGATTCATCACTTTAAGTTGTATACTGAGGGCTACCAAGTTCCTCCAGGAGCCACATATAC
TGCCATTGAGGCTCCCAAGGGAGAGTTTGGGGTGACCTGGTGTCTGATGGCAGCAGCCGCCCTTATCGATGCAA
GATCAAGGCTCCTGGTTTTGCCCATCTGGCTGGTTTGGACAAGATGTCTAAGGGACACATGTTGGCAGATGTCGT
TGCCATCATAGGTACCCAAGATATTGTATTGGAGAAGTAGATCGGTGAGCAGGGGAGCAGCGTTTGATCCCCC
TGCCATCAGCTTCTTCTGTGGAGCCTGTTCTCACTGGAAATTGGCCTCTGTGTGTGTGTGTGTGTGTGTGTGT
GTGTGTGTATGTTCTGTGTACACTTGGCTGTCAGGCTTCTGTGCATGTACTAAAAAAGGAGAAATTATAATAAAT
TAGCCGCTTTCGGGCCCTAGGCCTAAAAAAAAAAAAAAAAAAAAA

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FIGURE 471

MAALRALCGFRGVAAQVLRPGAGVRLPIQPSRGVRQWQPDVEWAQQFGGAVMYPKETAHWKPPPWNDVDPPKDT
IVKNITLNFPGQHPAAHGVLRLVMELSGEMVRKCDPHIGLLHRGTEKLIETYKTYLQALPYFDRLDYVSMCNEQA
YSLAVEKLLNIRPPRAQWIRVLFGEITRLLNHIMAVTTHALDLGAMTPFFWLFEEREKMFIFYERVSGARMHAA
YIRPGGVHQDLPLGLMDDIYQFSKNFSLRLDELEELLTNNRIWRNRTIDIGVVTAEALNYGFSGVMLRGSGIQW
DLRKTQPYDVYDQVEFDVPVGSRGDCYDRYLCRVEEMRQSLRIIAQCLNKMPPEIKVDDAKVSPPKRAEMKTS
ESLIHHFKLYTEGYQVPPGATYTAIEAPKGEFGVYLVSDGSSRPYRCKIKAPGFAHLAGLDKMSKGHMLADVVAI
IGTQDIVFGEVDR

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FIGURE 472

CCGGAACCCAAGATGGCTGCGCTGTTGCTGAGACACGTTGGTCGTCATTGCCTCCGAGCCCACCTTTAGCCCTCAG
CTCTGTATCAGAAATTGGTCTCTTCCCATGGCGATGTCCATCTGCCACCGTGGCACTGGTATTGCTTTGAGTGCA
GGGGTCTCTCTTTTTGGCATGTCGGCCCTGTTACTCCCTGGGAACCTTTGAGTCTTATTTGGAACCTTGGAAGTCC
CTGTGTCTGGGGCCAGCACTGATCCACACAGCTAAGTTTGCACTTGTCTTCCCTCTCATGTATCATACTGGAAT
GGGATCCGACACTTGATGTGGGACCTAGGAAAAGGCCTGAAGATTCCCCAGCTATACCAGTCTGGAGTGGTTGTC
CTGGTTCTTACTGTGTTGTCTCTATGGGGCTGGCAGCCATGTGAAGAAAGGAGGCTCCCAGCATCATCTTCCTA
CACATTATTACATTACCCATCTTTCTGTTTGTCACTTATCTCCAGCCTGGGAAAAGTTCTCCTTATTTGTTT
AGATCCTTTTGTATTTTCAGATCTCCTTGGAGCAGTAGAGTACCTGGTAGACCATAATAGTGGAAAAGGGTCTAG
TTTTCCCCTTGTTTCTAAAGATGAGGTGGCTGCATCTCTCTCCATATTGGGCTTT

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FIGURE 473

AATCATAGTGAAAGATTCGTTTTTCATTGCAGAGTGGTATGATCCAAATGCTTCACTTCTTCGACGTTATGAGCTT
TTATTTTACCCAGGGGATGGATCTGTTGAAATGCATGATGTAAAGAATCATCGCACCTTTTTAAAGCGGACCAAA
TATGATAACCTGCACCTTGAAGATTTATTTATAGGCAACAAAGTGAATGTCTTTCTCGACAACCTGGTATTAATT
GACTATGGGGATCAATATACAGCTCGCCAGCTGGGCAGTAGGAAAGAAAAACGCTAGCCCTAATTAAACCAGAT
GCAATATCAAAGGCTGGAGAAATAATTGAAATAATAAACAAAGCTGGATTTACTATAACCAAACCTCAAAATGATG
ATGCTTTCAGGAAAGAAGCATTGGATTTTCATGTAGATCACCAGTCAAGACCCTTTTTCAATGAGCTGATCCAG
TTTATTACAACCTGGTCCTATTATTGCCATGGAGATTTTAAAGAGATGATGCTATATGTGAATGGAAAAGACTGCTG
GGACCTGCAAACCTCTGGAGTGGCACGCACAGATGCTTCTGAAAGCATTAGAGCCCTCTTTGGAACAGATGGCATA
AGAAATGCAGCGCATGGCCCTGATTCTTTTGCTTCTGCGGCCAGAGAAATGGAGTTGTTTTTCTTCAAGTGGA
GGTTGTGGGCCGGCAAACACTGCTAAATTTACTAATTGTACCTGTTGCATTGTAAACCCCATGCTGTCAGTGAA
GGACTGTTGGGAAAGATCCTGATGGCTATCCGAGATGCAGGTTTTGAAATCTCAGCTATGCAGATGTTCAATATG
GATCGGGTTAATGTTGAGGAATTCATGAAGTTTATAAAGGAGTAGTGACCGAATATCATAGGACATGGTGACAG
AAATGTATTCTGGCCCTTGTGTAGCAATGGAGATTCAACAGAATAATGCTACAAAGACATTTGAGAATTTTGTG
GACCTGCTGATCCTG

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FIGURE 474

GCCCTTGCCCTTGAGTCAGTGCGCTGCTCTCCAGCCCGCTTGAACGCTCCCCGCAGCCACCGCCACCCATTGGAAT
GGCCAACAGGGGACCTGCATATGGCCTGAGCCGGGAGGTGCAGCAGAAGATTGAGAAACAATATGATGCAGATCT
GGAGCAGATCCTGATCCAGTGGATCACCACCCAGTGCCGAAAGGATGTGGGCCGGCCCCAGCCTGGACGCGAGAA
CTTCCAGAACTGGCTCAAGGATGGCACGGTGCTATGTGAGCTCATTAAATGCACTGTACCCCGAGGGGCAGGCCCC
AGTAAAGAAGATCCAGGCCTCCACCATGGCCTTCAAGCAGATGGAGCAGATCTCTCAGTTCTGCAAGCAGCTGA
GCGCTATGGCATTAAACACCACTGACATCTTCCAAACTGTGGACCTCTGGGAAGGAAAGAACATGGCCTGTGTGCA
GCGGACGCTGATGAATCTGGGTGGGCTGGCAGTAGCCCGAGATGATGGGCTCTTCTCTGGGGATCCCAACTGGTT
CCCTAAGAAATCCAAGGAGAATCCTCGGAACCTTCTCAGATAACCAGCTGCAAGAGGGCAAGAACGTGATCGGGTT
ACAGATGGGCACCAACCGCGGGGCGTCTCAGGCAGGCATGACTGGCTACGGGATGCCACGCCAGATCCTCTGATC
CCACCCAGGCCTTGCCCTGCCCTCCACGAATGGTTAATATATATGTAGATATATATTTTAGCAGTGACATTC
CCAGAGAGCCCCAGAGCTCTCAAGCTCCTTTCTGTCAAGGTGGGGGGTTCAGCCTGTCCTGTACCTCTGAGGTG
CCTGCTGGCATCCTCTCCCCCATGCTTACTAATAACATTCCCTTCCCCATAGCCATCAAAACTGGACCAACTGGCC
TCTTCCCTTCCCTGGGACCAAAATTTAGGGGCCTCAGTCCCTCACCGCCATGCCCTGGCCTATTCTGTCTCTCC
TTCTTCCCTTGGCCTGTTCTGTCTCTGAGCTCTGTGTCTCCGTTTCATTCCATGGCTGGGAGTCACTGATGCTG
CCTCTGCCTTCTGATGCTGGACTGGCCTTGCTTCTACAAGTATGCTTCTCCACAGCTGTGGCTGCAGGAACCTA
ATTTATAGGGAGGAGCCTGTGGCAGCTGCTGCCCCAGCCACAGCTGCACTGACTGTGCTCACCACACATCTGGGG
CAGCCTTCCCTGGCAGGGGCCCTCGTGGCTTCTCATTTTCCATTCCCTTCACTGTGGCTAAGGGGTGGGGTGAGG
GGATGGAGAGGGAGGGCTGCCTACCATGGTCTGGGGCTTGAGGAAGATGAGTTTGTGATTTAAATAAAGAATTT
GTCATTTTGTG

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FIGURE 475

MANRGPAYGLSREVQQKIEKQYDADLEQILIQWITTQCRKDVGRPQPGRENFQNLKDGTVLCELINALYPEGQA
PVKKIQASTMAFKQMEQISQFLQAAERYGINTTDIFQTVDLWEGKNMACVQRTLMNLGGLAVARDDGLFSGDPNW
FPKKSSENPRNFSNQLQEGKNVIGLQMGNTNRGASQAGMTGYGMPRQIL

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FIGURE 476A

GTGGAGCCGAGCGGTGCGGAGCAGATCTGGTGGTTCTCCGGAGAGCAGCTTCCTCGGGTGTTACATGAGCCAAGC
CCTCACTGTACAGAAGAGTGAGAGCTGAAACCTGTTCCCTGAGCTGATCAGAAGGACATCCCTTGCCCCCTCCAT
CTGGGCTCCTGTGGATAGGAGGGGCTGGGTGAGCAGGCCAGCTGGGCTATGGTGTGGTGCCCTGGCCCTGGCCGTC
CTCAGCCTGGTCAATCAGCCAGGGGGCTGACGGTCGAGGGAAGCCTGAGGTGGTATCGGTGGTGGGCGGGGCTGGG
GAGAGTGTGGTGTGGGCTGTGACCTGCTGCCCCCGCCGGCCGGCCCCCTGCATGTATCGAGTGGCTGCGC
TTTGGATTCTGCTTCCCATCTTCATCCAGTTCGGCTCTACTCTCCCCGAATTGACCCTGATTACGTGGGACGA
GTCCGGCTGCAGAAGGGGGCTCTCTCCAGATTGAGGGTCTCCGGGTGGAAGACCAGGGCTGGTACGAGTGGCGC
GTGTTCTTCTGGACCAGCACATCCCTGAAGACGATTTTGCTAACGGCTCCTGGGTGCATCTGACAGTCAATTCA
CCCCCTCAATTCCAGGAGACACCTCCTGCTGTGTTGGAAGTGCAGGAACCTGGAGCCTGTGACCCTGCGTTGTGTG
GCCCCGTGGCAGCCCCCTGCCTCATGTGACGTGGAAGCTCCGAGGAAAGGACCTTGCCAGGGCCAGGGCCAGGTG
CAAGTGCAGAACGGGACGCTGCGGATCCGCCGGGTAGAGCGAGGCAGCTCTGGGGTCTACACCTGCCAAGCCTCC
AGCACTGAGGGCAGCGCCACCCACGCCACCCAGCTGCTAGTGCTAGGACCCCCAGTCATCGTGGTGGCCCCAAG
AACAGCACAGTCAATGCCTCCAGGATGTTTCAATTGGCTGCCATGCTGAGGCATACCCTGCTAACCTCACCTAC
AGCTGGTTCAGGACAACATCAATGTCTTCCACATTAGCCGCTGCAGCCCCGGGTGCGGATCCTGGTGGACGGG
AGCTGCGGCTGCTGGCCACCCAGCCTGATGATGCCGGTGCTACACCTGTGTGCCAGCAATGGCCTCCTGCAT
CCACCTCAGCCTCTGCCTACCTCACTGTGCTCTACCCAGCCAGGTGACAGCTATGCCTCCTGAGACACCCCTG
CCCATAGGCATGCCGGGGTGATCCGCTGCCCGGTTCTGTGCCAACCCCCACTGCTCTTTGTGAGCTGGACCAAG
GATGGAAGGCCCTGCAGCTGGACAAGTTCCTTGGCTGGTCCCAGGGCACAGAAGGCTCACTGATCATCGCCCTG
GGGAACGAGGATGCCCTGGGAGAATACTCTGCACCECCTACAACAGTCTTGGTACCGCCGGGCCCTCTCTGTG
ACCCGCTGCTGCTCAAGGCTCCCCAGCTTTTATAGAGCGGCCCAAGGAAGAATAATTCCAAGAAGTAGGGCGG
GAGCTGCTCATCCCTGCTCCGCCCAAGGGGACCCCTCCTCTGTGTCTCTTGGACCAAGGTGGGCGGGGGCTG
CAAGGCCAGGCCAGGTGGACAGCAACAGCAGCCTCATCTGCGACCATGACCAAGGAGGCCACGGGCACCTGG
GAATGCAGTGCCAGCAATGCTGTGGCCGAGTGGCCACCTCCACGAACGTCTACGTGCTGGGCACTAGCCCTCAT
GTTGTACCAATGTGTCCGTGGTGGCTTTGCCCAAGGGTGCCAATGTCTCTCTGGGAGCCTGGCTTTGATGGTGGT
TATCTGCAGAGATTAGTGTCTGGTACACCCACTGGCCAAGCGTCTGACCGAATGCACCATGACTGGGTGTCC
TTGGCAGTGCCCTGTGGGGGCTGCTACCTCCTAGTGCCAGGGCTGCAGCCCCACACCCAGTACAGTTACAGCGTG
CTAGCTCAGAACAAGCTGGGGAGTGGTCCCTTCAGCGAAATCGTCTTGTCTGCTCCGGAAGGGCTTCCTACCACG
CCAGCTGCACCCGGGCTTCCCCAACAGAGATACCGCTCCCTGTCCCTCCGCGGGTCTGGTGGCAGTGAGG
ACACCCCGGGGGTACTCTGCATTGGGATCCCCAGAGCTGGTCCCTAAGAGACTGGATGGCTACGCTTGGAA
GGCCGGCAAGGCTCCCAGGGCTGGGAGGTGCTGGACCCGGCTGTGGCAGGCACAGAAACAGAGCTGCTGGTGCCA
GGCCTCATCAAGGTATGTTCTCTACGAGTTCGCCTCGTGGCTTCGCGGCAGCTTCGTGAGCAGCCCCAGCAA
CACGGCCAACGTCTCCACTTCCGGTCTGGAGGTCTACCTTCGCGCACGCAGCTGCCGGGCCCTCTGCCTCAGCC
CGTGTGCGCGGCGTGGTGGGCGGAGTCTGCTTTCTGGGAGTGGCCGTCCTTGTGAGCATCCTGGCCGGCTGCCT
CCTGAACCGGCGCAGGGCTGCCCGCCGCCGCCGAAGCGCCTCCGCCAAGATCCACCTCTATCTTCTCTCCGAC
CGGGAAGTCAGCTGCACCTCTGCTCTGGGCTCAGGCAGTCTTGACAGCGTGGCGAAGCTGAAGCTCCAGGGATC
CCCAGTCCCCAGCCTGCGCCAGAGTCTGCTCTGGGGGATCCTGCCGGAACCTCCAGCCCCACCCGGATCCTCC
ATCTAGCCGGGGACCTTACCTCTGGAGCCCATTTGCCGGGGCCAGACGGGCGCTTTGTGATGGGGCCACTGT
GGCGGCCCCCAGGAAAGGTGAGCCGGGAGCAGGCAGAACCTCGGACTCCAGCCAGCGTCTGGCCCGGTCCCTT
TGACTGTAGCAGCAGCAGCCCCAGTGGGGCACCCAGCCCCCTCTGCATTGAAGACATCAGCCCTGTGGACCCCC
TCCAGCAGCCCCACCCAGTCCCTTGCCAGGTCTTGACCCCTGCTCCAGTACCTGAGCCTGCCCTTCTTCCGAGA
GATGAATGTGGATGGGGACTGGCCCCGCTTGAGGAGCCAGCCCTGCTGCACCCCAAGATTACATGGATACCCG
GCGCTGTCCACCTCATCTTCTCTCGTTCTCCAGAAACCCCTCCTGTATCCCCAGGGAATCACTTCTTGGGGC
TGTGGTAGGGGCTGGGGCCACTGCAGAGCCCCCTTACACAGCCCTGGCTGACTGGACACTGAGGGAGCGGTGCT
GCCAGGCCTTCTCCCTGCTGCCCTCGAGGACGCTACAGCCAGAGCAGTGGGCGAGGCAGCGCTTCGTTCTCT
GCGGCCCCCTCCACAGCCCCCTCTGCAGGAGGCAGCTACCTAGCCCTGCTCCAGGAGACACCAGCAGCTGGGC
CAGTGGCCCTGAGAGATGGCCCCGAAGGGAGCATGTGGTGACAGTCAGCAAGAGGAGGAACACATCTGTGGACGA
GAACTATGAGTGGGACTCAGAATTCCCTGGGGACATGGAATTGCTGGAGACTTTGCACCTGGGCTTGGCCAGCTC
CCGGCTCAGACCTGAAGCTGAGCCAGAGCTAGGTGTGAAGACTCCAGAGGAGGGCTGCCTCCTGAACACTGCCCA

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FIGURE 476B

TGTTACTGGCCCTGAGGCCCGCTGTGCTGCCCTTCGGGAGGAATTCCTGGCCTTCGCGCGCCGCCGAGATGCTAC
TAGGGCTCGGCTACCAGCCTATCGACAGCCAGTCCCCACCCCGAACAGGCCACTCTGCTGTGAACATCCCTGAT
GTGAGGCTGTGAAAAGGCATATGGACCTGCAAAGGAGGCCCCCAACCAGACAGACCTAGTTTCAAACGAGGGCAC
TGCCCTGCCTGCCCTTTGGTGCCAGGCACAGACCTGATAGTGGGTTTGGGTCACCTTGGTATGGAATGTAT
GTGCTGACCCCTAGGTGAGTCTGGGGATTGGAACAGGGATCTTAGGTCTGCCTCTCTCTCTCTCTCTCTCTC
TCTCTCTCTCTGTGTGTGTGTGTGTGTGTGTGAAGTTTTTACAGGTGAATAAACAAGTTTGAAAGATG